

Volume

#

R0393

BOOK A-393

INDEX DIAGRAM.

Township 34 South, Range 25 East

24	6	84	5	11	4	62	3	53	2	43	1	16
	53		93		70		61		52		42	
24	7	82	8	69	9	60	10	51	11	41	12	17
	51		10		69		59		50		40	
25	18	19	17	35	16	53	15	49	14	39	13	15
	75		15		67		58		49		39	
25	10	11	20	66	21	56	22	45	23	38	21	19
	76		15		65		56		47		37	
26	30	74	20	54	24	55	27	46	26	36	25	20
	94		73		63		51		45		36	
27	31	72	32	62	33	53	31	44	35	35	36	21

FIELD NOTES

OF THE SURVEY OF THE

Of the

Meridian,

In the State of

EXECUTED BY

In the capacity of U. S. Surveyor, under instructions dated ..., 191...,
issued by the United States Surveyor General to govern surveys included in
Group No., which were approved by the Commissioner of the General Land
Office, ..., 191..., pursuant to authority contained in the Act of
Congress dated ..., 191....

Survey commenced ..., 191....

Survey completed ..., 191....

BOOK A-393

INDEX DIAGRAM.

Township 34 South, Range 26 East
142 143 144 145 146 147

6	102	5	112	4	122	3	133	2	1
101	111		120		132		132		
7	100	8	110	9	120	10	131	11	12
19	110		119		130		130		
16	95	17	109	16	118	15	129	14	13
97	105		118		128		128		
19	96	20	107	21	117	22	127	23	24
96	106		116		126		126		
30	95	29	105	28	115	27	125	26	25
94	105		115		124		124		
31	93	32	102	33	114	34	123	35	36

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Survey completed , 191 .

BOOK A-393

INDEX DIAGRAM.

Township 33 South, Range 26 East
 162 163 164 165 166

159	6	184	5	195	4	204	3	217	2	1
183		194		203		215		216		
168	7	182	8	193	9	202	10	214	11	12
182		192		201		213		213		
158	18	180	17	191	16	201	15	212	14	13
180		190		200		211		211		
157	19	179	20	189	21	199	22	210	23	21
178		188		198		208		209		
156	30	177	29	187	28	197	27	208	26	25
177		187		196		206		207		
156	31	176	32	186	33	195	34	205	35	36

FIELD NOTES

ON THE BEHAVIOR OF FISH

1954

1954

in the River of

EXPLANATION OF

In the summary of Dr. Maruyama's earlier experiments, it was

said by the author Maruyama that the general methods established
earlier were still in use, although some experiments by the Commissioner of the Imperial
Fisheries, Dr. T. Saito, were approved by the Commissioner of the Imperial
Fisheries.

Chubu District

1954

Shigeta's catch

1954

Saito's catch

1954

INDEX DIAGRAM.

Township 32 South, Range 24 East
 240 241 242 243 244 245

258	6	311	5	304	4	296	3	281	2	278	1		238
	316		315		303		295		286		277		
259	7	314	8	302	9	293	10	285	11	275	12		237
	313		313		301		293		285		275		
260	18	311	17	300	16	292	15	283	14	273	13		236
	310		310		299		291		283		273		
255	19	309	20	299	21	290	22	282	23	272	24		235
	308		307		298		290		281		272		
254	30	307	29	291	28	289	27	281	26	271	25		235
	306		305		297		285		280		270		
256	31	304	32	296	33	288	34	279	35	270	36		234
	231		230		232		229		228		228		

FIELD NOTES

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Congress dated , 191.....

Survey commenced , 191.....

Survey completed , 191.....

BOOK A-393

INDEX DIAGRAM.

Township 32 South, Range 25 East
 341 342 342 343 344 345

6	400	5	388	4	379	3	370	2	361	1	339
399		398		388		378		369		360	
7	397	8	386	9	377	10	368	11	359	12	338
391		396		386		376		367		359	
18	395	17	384	16	375	15	366	14	358	13	337
394		394		384		374		365		357	
19	393	20	383	21	373	22	364	23	356	24	336
392		392		383		373		364		356	
30	391	29	382	28	372	27	363	26	355	25	335
391		390		382		371		362		354	
31	389	32	381	33	371	34	362	35	354	36	334
	328		328		329		330		331		331

FIELD NOTES

OF THE SURVEY OF THE

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Survey commenced ..., 191...

Survey completed ..., 191...

BOOK A-393

INDEX DIAGRAM.

Township 32 South, Range 26 East
 410 411 412 414 415

6 433	5 444	4 455	3 469	2	1
7 432	8 443	9 454	10 468	11 468	12
13 430	14 441	15 452	16 466	17 466	18
19 429	20 440	21 451	22 454	23	24
26 428	27 439	28 450	29 462	30 463	
30 427	31 438	32 449	33 461	34	
36 426	37 437	38 448	39 460	40 461	
425	436	446	457	458	
31 424	32 435	33 445	34 456	35	36

FEB 10 1912
W.M.B.

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BOOK A-393

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FIELD NOTES

Resurvey
OF THE SURVEY OF THE

E A S T B O U N D A R Y

And

RETRACEMENT OF THE WEST BOUNDARY
o f'

TOWNSHIP NO. 34 SOUTH, RANGE NO. 25 EAST.

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Melvin D. Heist and Eben B. Andrews,

Transitmen

In the capacity of U. S. Surveyors, under instructions dated May 22, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 12, which were approved by the Commissioner of the General Land
Office, June 17, 1911, pursuant to authority contained in the Act of
Congress dated , 1911.

Survey commenced August 20, 1911.

Survey completed August 27, 1911.

Rev E Rdy 6-01-41
Rtr W Rdy 6-01-24

BOOK A-393

INDEX DIAGRAM.

Township 34 South, Range 25 East

6	5	4	3	2	1	2
7	8	9	10	11	12	3
18	17	16	15	14	13	4
19	20	21	22	23	24	5
30	29	28	27	26	25	6
31	32	33	34	35	36	7

RESURVEY OF EAST BOUNDARY OF T. 34 S. R. 25 E.

Survey commenced August 20, 1911, and executed with the instrument described in book "D" of this survey, I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of Tps. 34 and 35 S., Rs. 25 and 26 E., heretofore described, in approximate latitude $37^{\circ}49'N.$, longitude $109^{\circ}09'W.$, I set off $37^{\circ}49'N.$ on lat. arc, $12^{\circ}36'N.$ on decl. arc, and at 4h. 03m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 9h. 39m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs. N. of my station.

August 20, 1911

August 21: At 6 a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}29'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h. 03m., a.m., l.m.t., I set off $37^{\circ}49'N.$ on lat. arc, $12^{\circ}23'N.$ on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations defines positions for meridians, respectively about $0'21''$ west and $0'16''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 30m., a.m., is $N.15^{\circ}40'W.$, the angle thus determined gives the

RESURVEY OF THE EAST BOUNDARY OF T.34 S., R.25 E.

CHAINS

mag.decl. $15^{\circ}40'$ E.

From the Tp.cor.already described, I run North on retracement line along the E.bdy.of T.34 S.,R.25 E.,at 40.00 chs.,the old $\frac{1}{4}$ sec.cor.bears S. $58^{\circ}25'E.$, 248 lks.dist.and at 80.00 chs.,the cor.of secs.25-30-31 and 36 bears S. $55^{\circ}20'E.$,148 lks.dist.; I continue my line north and find the line out of limits for course and distance,un til at 481.41 chs.,intersect S.bdy.of T.33 S.,R.25 E.,at 222 lks.west of the cor.of Tps.33 and 34 S.,Rs.25 and 26 E.,which is a cedar post, 4 ins.diam. 24 ins.above ground,marked and witnessed as described by the surveyor general.

The falling answers to a correction of $0^{\circ}16'$,or 37 lks. west per mile, counting from the NE.cor.of the Tp. The line being out of limits for course and distance and there being no subdivisions dependent upon the line

I resurvey the line.

August 23: At this cor.I set off $11^{\circ}39'N.$ on decl.arc, and at Oh.03m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is $37^{\circ}54'N.$

From the cor.of Tps.33 and 34 S.,Rs.25 and 26 E., I run

S. $0^{\circ}16'W.$,on a true line,betsecs.1 and 6, marking and blazing true line.

Gradual descent over rolling land,through heavy timber.

11.20 Leave timber,bears E.and W.

Enter dense undergrowth.

41.41 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for re-established $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{2}$ S 1 on W.half,S 6 on E.half,dig pits,18x18x12 ins., N.and S.of post,3 ft.dist.,and raise a mound of earth, $3\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high,W.of cor.

I destroy all traces of the old $\frac{1}{4}$ sec.cor.which bears S. $59^{\circ}30'W.$,197 lks.dist.

50.90 Enter heavy timber,bears E.and W.

61.10 Leave timber,bears E.and W.

RESURVEY OF EAST BOUNDARY OF T.34 S., R.25 E.

CHAINS	
70.10	Enter heavy timber, bears E. and W.
81.41	<p>Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for re-established cor. of secs. 1-6-7 and 12, marked on brass cap, T 34 S. on N. half,</p> <p>R 25 E S 1 in NW.,</p> <p>R 26 E S 6 in NE.,</p> <p>S 7 in SE. and S 12 in SW. quadrant, from which</p> <p>A pinon, 6 ins. diam., bears N. $64^{\circ}05' E.$, 18 lks. dist., marked T 34 S R 26 E S 6 BT.</p> <p>A pinon, 7 ins. diam., bears S. $66^{\circ}25' E.$, 20 lks. dist., marked T 34 S R 26 E S 7 BT.</p> <p>A pinon, 8 ins. diam., bears S. $44^{\circ}20' W.$, 73 lks. dist., marked T 34 S R 25 E S 12 BT.</p> <p>A pinon, 8 ins. diam., bears N. $37^{\circ}30' W.$, 87 lks. dist., marked T 34 S R 25 E S 1 BT.</p> <p>I destroy all marks of the old cor. of secs. 1-6-7 and 12 which bears S. $55^{\circ}00' W.$, 194 lks. dist.,</p> <p>Land, rolling.</p> <p>Soil, sandy loam, 24 ins. deep, 1st. rate.</p> <p>Subsoil, gravel.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth, sage brush.</p> <p>Land heavily timbered or covered with dense undergrowth on 81.41 chs.</p>
32.20	<p>\ S. $0^{\circ}16' W.$, resurveying bet. secs. 7 and 12.</p> <p>Gradual descent over rolling land, through heavy timber.</p> <p>Telephone line, between Dolores, Colorado and Monticello, Utah, bears E. and W.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, marked $\frac{1}{4}$ S 12 on W. half, S 7 on E. half, from which</p> <p>A pinon, 12 ins. diam., bears N. $47^{\circ}W.$, 21 lks. dist., marked $\frac{1}{4}$ S 12 BT.</p> <p>A cedar, 10 ins. diam., bears N. $79^{\circ}55' E.$, 12 lks. dist., marked $\frac{1}{4}$ S 7 BT.</p>

RESURVEY OF THE EAST BOUNDARY OF T.34 S., R.25 E.

CHAINS

I destroy all traces of the old $\frac{1}{4}$ sec.cor. which bears S. $43^{\circ}W.$, 140 lks.dist.,

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established cor. of secs. 7-12-13 and 18, marked on brass cap, T 34 S on N.half,

R 25 E S 12 in NW.,

R 26 E S 7 in NE.,

S 18 in SE. and S 13 in SW. quadrant, from which

A cedar, 18 ins. diam., bears N. $68^{\circ}E.$, 61 lks.dist., marked T 34 S R 26 E S 7 BT.

A pinon, 6 ins. diam., bears S. $38^{\circ}32'E.$, 66 lks.dist., marked T 34 S R 26 E S 18 BT.

A pinon, 14 ins. diam., bears S. $42^{\circ}W.$, 26 lks.dist., marked T 34 S R 25 E S 13 BT.

A pinon, 8 ins. diam., bears N. $54^{\circ}50'W.$, 65 lks.dist., marked T 34 S R 25 E S 12 BT.

I destroy all traces of the old cor. of secs. 7-12-13 and 18, which bears S. $34^{\circ}28'E.$, 118 lks.dist.

Land, rolling.

Soil, sandy loam, 1st. rate., 24 ins. deep,

subsoil, gravel.

Timber, cedar and pinon.

Heavily timbered land on 80.00 chs.

S. $0^{\circ}16'W.$, resurveying bet. secs. 13 and 18. Gradual descent over rolling land, through heavy timber.

34.30 Leave heavy timber, bears E. and W.

Enter scattering timber and dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor. marked on brass cap, $\frac{1}{4}$ S 13 on W.half, S 18 on E. half, from which

A cedar. 12 ins. diam., bears S. $77^{\circ}30'E.$. 215 lks. dist., marked $\frac{1}{4}$ S 18 BT.

No other trees within limits, dig pits, 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

CHAINS	I destroy all traces of the old $\frac{1}{4}$ sec. cor. which bears S. $55^{\circ}25'W.$ 90 lks. dist.
65.30	Enter heavy timber bears E. and W.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins in the ground, for re-established cor. of secs. 13-18-19 and 24 marked on brass cap, T 34 S on N half, R 25 E S 13 in NW., R 26 E S 18 in NE., S 19 in SE. and S 24 in SW. quadrant from which A cedar, 14 ins. diam., bears N. $84^{\circ}20'E.$ 67 lks. dist., marked T 34 S R 26 E S 18 BT. A pinon, 9 ins. diam., bears S. $73^{\circ}40'E.$, 101 lks. dist., marked T 34 S R 26 E S 19 BT. A cedar, 6 ins. diam., bears S. $86^{\circ}32'W.$, 55 lks. dist. marked T 34 S R 25 E S 24 BT. A cedar, 9 ins. diam., bears N. $33^{\circ}03'W.$, 67 lks. dist. marked T 34 S R 25 E S 13 BT.
	I destroy all traces of the old cor. of secs. 13-18-19 and 24 which bears S. $25^{\circ}15'E.$, 99 lks. dist.
	Land, rolling. Soil, sandy loam, 1st. rate, 24 ins. deep. subsoil, gravel. Timber, cedar and pinon. Undergrowth, sage brush. Heavily timbered land or land covered with dense under-growth on 80.00 chs.
	August 23, 1911
40.00	August 24: At 8h.03m., a.m., l.m.t., I set off $37^{\circ}51'N.$ on lat.arc, $11^{\circ}23'N.$ on decl.arc, and determine a meridian with the solar at the re-established cor. of secs. 13-18-19 and 24. Thence I run S. $0^{\circ}16'W.$, resurveying bet. secs. 19 and 24. Gradual descent over rolling land, through heavy timber. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 24 on W. half, S 19 on E. half, from which

RESURVEY OF THE EAST BOUNDARY OF T.34 S., R.25 E.

CHAINS

A cedar, 8 ins. diam., bears N. $81^{\circ}05' E.$, 61 lks. dist., marked $\frac{1}{4}$ S 19 BT.

A cedar, 11 ins. diam., bears S. $83^{\circ}02' W.$, 122 lks. dist., marked $\frac{1}{4}$ S 24 BT.

After diligent search, no trace can be found of the old $\frac{1}{4}$ sec.cor.

69.70 Leave timber, bears E. and W.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established cor. of secs. 19-24-25 and 30, marked on brass cap, T 34 S on N. half,

R 25 E S 24 in NW.,

R 26 E S 19 in NE.,

S 30 in SE. and S 25 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

After diligent search, no trace can be found of the old sec.cor.

Land, rolling.

Soil, sandy loam, 24 ins. deep, 1st. rate. Subsoil, gravel.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land heavily timbered or covered with dense undergrowth on 30.00 chs.

S. $0^{\circ}16' W.$, resurveying bet. secs. 25 and 30.

Gradual descent over rolling land, through dense undergrowth.

11.00 Enter scattering timber. Road bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 25 on W. half, S 30 on E. half, from which

A cedar, 8 ins. diam., bears S. $71^{\circ}15' W.$, 121 lks. dist., marked $\frac{1}{4}$ S 25 BT.

No other trees within limits, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

RESURVEY OF THE EAST BOUNDARY OF T.34 S., R.25 E.

CHAINS

I destroy all traces of the old $\frac{1}{4}$ sec.cor. which bears S.46°E., 184 lks.dist.

74.70

Wash, 10 lks.wide, 8 ft.deep, course S.W.

80.00

Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground, for re-established cor.of secs.25-30-31 and 36, marked on brass cap, T 34 S on N.half,
R 25 E S 25 in NW.,

R 26 E S 30 in NE.,

S 31 in SE. and S 36 in SW.quadrant, from which

A cedar, 5 ins.dia., bears N.80°50'E., 36 lks.dist., marked T 34 S R 26 E S 30 BT.

A pinon, 7 ins.diam., bears S.55°20'E., 148 lks.dist., marked T 34 S R 26 E S 31 BT.

No other trees within limits, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.

Pits impracticable.

I destroy all traces of the old cor.of secs.25-30-31 and 36, which bears S.55°32'E., 216 lks.dist.,

Land, rolling.

Soil, sandy loam, 24 ins.deep, 1st rate on first 70.00 chs.

balance, rocky, 3rd.rate., subsoil, gravel.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

S.0°16'W., resurveying betsecs.31 and 36.

Gradual descent over rolling land, through dense undergrowth.

38.00

Enter scattering timber.

40.00

Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 36 on W.half, S 31 on E.half, from which

A pinon, 5 ins.diam., bears S.9°05'E., 28 lks.dist., marked $\frac{1}{4}$ S 31 BT.

A pinon, 5 ins.diam., bears S.32°35'W., 77 lks.dist., marked $\frac{1}{4}$ S 36 BT.

RESURVEY OF THE EAST BOUNDARY OF T.34 S., R.25 E.

CHAINS

I destroy all traces of the old $\frac{1}{4}$ sec.cor. which bears S. $32^{\circ}35'W.$, 77 lks.dist.

60.00 Leave timber. Gulch drains west.

80.00 The cor. of Tps. 34 and 35 S., RS. 25 and 26 E.

Land, rolling.

Soil, rocky loam on first 60.00 chs., 3rd.rate; balance, sandy loam, 1st.rate; subsoil, gravel.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

August 24: At this cor. I set off $11^{\circ}19'N.$ on decl.arc, and at 0h.03m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}49'N.$

BOUNDARIES OF T.34 S., R.25 E.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs.	Chs.	Chs.	Chs.
East Bdy.	S. $0^{\circ}16'W.$	481.41		481.41		2.24
South Bdy.	N. $89^{\circ}58'W.$	477.72	0.28		477.72	
West Bdy.	N. $0^{\circ}06'W.$	80.16	80.16			0.14
	N. $0^{\circ}05'W.$	80.12	80.12			0.12
	N. $0^{\circ}07'E.$	80.63	80.63		0.16	
North		160.40	160.40			
	N. $0^{\circ}02'E.$	79.93	79.93		0.05	
North Bdy.	East,	478.87		478.87		
Convergency					0.56	
Totals,		48 1.52 481.41	481.41 479.64	479.64 480.22		479.64 480.22
Error in lat.		0.11	Error in dep.	0.58		

For General Description see Subdivisions of T.34 S., R. 25 E.

Melvin H. West - Chen B. Andrews

U.S. Transitman

CHAINS

Survey commenced, August 26, 1911, and executed with the instrument described in book "D", of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 33 and 34 S., Rs. 24 and 25 E., which is a sandstone, $12 \times 10 \times 6$ ins. above ground, marked and witnessed as described by the surveyor general, in approximate latitude $37^{\circ}54'N.$, longitude $109^{\circ}16'W.$, I set off $37^{\circ}54'N.$ on lat.arc, $10^{\circ}35'N.$ on decl.arc, and at 4h.02m., p.m., l.m.t., determine with the solar a meridian, and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

At 9h.16m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs.N. of my station.

August 26, 1911

August 27: At 7 a.m., I lay off the azimuth of Polaris, $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 8h.02m., a.m., l.m.t., I set off $37^{\circ}54'N.$ on lat.arc, $10^{\circ}21'N.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs.N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively, about $0'10''$ west and east of the meridian established by the Polaris.

RETRacement OF THE WEST BOUNDARY OF T.34 S., R.25 E.

CHAINS

observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m. is N. $15^{\circ}40'W.$, the angle thus determined gives the

mag. decl. $15^{\circ}40'E.$ Before commencing subdivision I deem it necessary to retrace the w. boundary of Tp. From the Tp.cor.already described, I run

$8.0^{\circ} 01'W.$, retracing bet.secs.1 and 6.

Gradual descent over rolling land, through dense undergrowth.

20.69 Wagon road to Monticello, bears NW. and SE.

39.92 Fall 1 lks.E. of the $\frac{1}{4}$ sec.cor. which is a sandstone, 4x8x10 ins.above ground, marked and witnessed as described by the surveyor general.

I continue on same line.

79.93 Fall 2 lks.E. of the cor.of secs.1-6-7 and 12, which is a sandstone, 3x12x12 ins.above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore $S.0^{\circ}02'W.$, and the distance, 79.93 chs.

Land, rolling.

Soil, sandy loam from 20 to 30 ins.deep, 1st rate.
subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 79.93 chs.

$8.0^{\circ}01'W.$, retracing bet.secs.7 and 12.

Gradual descent over rolling land, through dense undergrowth.

10.00 Wash, 25 lks.wide, 10 ft.deep, course SW.

31.34 Telephone line, between Monticello, Utah, and Dolores, Colorado, bearing E. and W.

40.12 Fall 1 lk. the $\frac{1}{4}$ sec.cor., which is a sandstone, 3x12x14 ins. above ground, marked and witnessed as described by the surveyor general.

40.30 Fall 2 lks.W. of cor.of secs.7-12-13 and 18, which is a

RETRACEMENT OF THE WEST BOUNDARY OF T.34 S., R.25 E.

CHAINS

sandstone, 3x12x18 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore South and the distance 80.30 chs.

Land, rolling.

Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate.

subsoil, gravel.

No timber.

Land covered with dense undergrowth on 80.30 chs.

S.0°01'W, retracing bet. secs. 13 and 18.

Gradual descent over rolling land, through dense undergrowth.

31.60

Wagon road, bears E. and W.

40.02

Fall 21ks: W. of cor. which is a sandstone, 3x12x11 ins. above ground, marked and witnessed as described by the surveyor general.

80.10

Fall 21ks: W. of cor. of secs. 13-18-19 and 24, which is a sandstone, 3x11x12 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore South and the distance 80.10 chs.

Land, rolling.

Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate.

subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.10 chs.

August 27: At this cor. I set off 10°17'N. on decl. arc, and oh.02m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°51'N.

S.0°01'W, retracing bet. secs. 19 and 24.

Gradual descent over rolling land, through dense undergrowth.

RETRACEMENT OF THE WEST BOUNDARY OF T. 34 S., R. 25 E.

CHAINS	
40.25	Fall 7 lks.E.of the $\frac{1}{4}$ sec.cor. which is a sandstone, 4x7x14 ins.above ground,marked and witnessed as described by the surveyor general. I continue on same line
80.63	Fall 16 lks.W.of the cor.of secs.19-24-25 and 30,which is a sandstone,4x12x12 ins.above ground,marked and witnessed as described by the surveyor general. The course of this line is therefore S.0°07'W.and the distance 80.63 chs.
	Land,rolling,
	Soil,sandy loam,from 15 to 24 ins.deep, 1st.rate. Subsoil,gravel.
	No timber.
	Undergrowth,sage brush.
	Land covered with dense undergrowth,op 80.63 chs.

S.0°.01'W., retracing betsecs.25 and 30.

Gradual descent over rolling land, through dense under-growth.

40.04	Fall 7 lks.W.of the $\frac{1}{4}$ sec.cor., which is a sandstone, 4x8x13 ins.above ground,marked and witnessed as described by the surveyor general.
	I continue on same line
47.60	Enter scattering timber.
55.60	Wash,1.00 ch.wide,20 ft.deep,course W.
	Leave timber.
80.12	Fall 14 lks.W.of the cor.of secs.25-30-31 and 36,which is a sandstone,4x12x14 ins.above ground,marked and witnessed as described by the surveyor general. The course of this line is therefore S.0°05'E.and the distance 80.12 chs.
	Land,rolling.
	Soil,rocky and sandy loam from 12 to 20 ins.deep,1st. and 2nd.rate. subsoil, gravel and sandstone.
	Timber,scattering cedar and pinon.
	Undergrowth,sage brush.

RETRACEMENT OF THE WEST BOUNDARY OF T.34 S., R.25 E.

CHAINS	
	Land covered with dense undergrowth on 80.12 chs.
	S.0°06' W., retracing bet. secs. 31 and 36.
	Gradual descent over rolling land, through dense undergrowth.
40.00	Fall 8 lks. west of the $\frac{1}{4}$ sec. cor. which is a sandstone, 3x12x16 ins. above ground, marked and witnessed as described by the surveyor general.
	I continue on same line
80.16	Fall 16 lks. west of the cor. of Tps. 34 and 35 S., Rs. 24 and 25 E., heretofore described.
	The course of this line is therefore S.0°06'E. and the distance 80.16 chs.
	Land, rolling.
	Soil, rocky and sandy loam from 12 to 20 ins. deep, 1st. and 2nd. rate. Subsoil, gravel and sandstone.
	No timber.
	Undergrowth, sage brush.
	Land covered with dense undergrowth on 80.16 chs.

August 27, 1911

For table of latitudes and departures, see East Bdy. of T.34 S., R.25 E.

For General Description see, Subdivisions of T.34 S., R.25 E.

Chen B Andrews

U.S. Transitman

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Page**

BOOK A-393

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of

For certificates of assistants see book "Z" T. 33 S., R. 26 E.

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the day of 191 I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of of the Meridian, in the State of which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

For final oaths of transition see book "Z" p. 22 S., R. 26 L.

U. S. Surveyor.

Subscribed by said and sworn to before me }
this day of , 191 }
.....



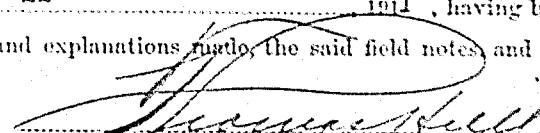
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19, 1914.

The foregoing field notes of the survey of the East and retracement of the West Boundaries of Township No. 34 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah.

executed by Melvin E. Heintz and Eben B. Andrews
their under his special instructions dated May 22 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes and the surveys they describe, are hereby approved.


U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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BOOK A-393

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N S

of

TOWNSHIP NO. 34 SOUTH, RANGE NO. 25 EAST,

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Melvin D. Heist, and Eben B. Andrews

Transitmen

In the capacity of U. S. Surveyor, under instructions dated May 22, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 12, which were approved by the Commissioner of the General Land
Office, June 17, 1911, pursuant to authority contained in the Act of
Congress dated , 1911.

Survey commenced August 24, 1911.

Survey completed August 31, 1911.

60-00-45

Closing 2.60r

BOOK A-393

INDEX DIAGRAM.

Township 34 SOUTH, Range 25 EAST.

6	50	5	37	4	27	3	19	2	8	1
49		49		36		27		18		8
7	48	8	35	9	26	10	19	11	7	12
47		46		35		25		16		6
18	45	17	34	16	24	15	15	14	5	13
44		44		33		23		15		5
19	43	20	32	21	22	22	14	23	4	24
42		41		31		22		13		3
30	40	29	30	28	21	27	12	26	2	25
39		38		29		20		11		2
31	38	32	23	33	19	34	10	35	1	36

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

Survey commenced, August 24, 1911, and executed with the instrument described in book "D" of this survey.

I know the instrument to be in adjustment from recent observations made August 20 and 21, 1911, at the cor. of Tps. 34 and 35 S., Rs. 25 and 26 E., and recorded in book "D" of this survey.

At noon of this day I finish the E.bdy. of this Tp., and at 2h.03m., p.m., l.m.t., I set off $37^{\circ}49'N.$ on lat.arc, $11^{\circ}17'N.$ on decl.arc, and determine a meridian with the solar, at the re-established cor. of secs. 1-2-35 and 36, heretofore described on the S.bdy. of the Tp.

Thence I run

$N.0^{\circ}15'E.$, bet. secs. 35 and 36.

Gradual ascent over rolling land, through dense undergrowth.

22.00 Wash, 50 lks. wide, 7 ft. deep, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 35 on W. half, S 36 on E. half, dig pits, 18x18x12 ins., N. and S. of 3 ft. dist. post, and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

72.45 Road, bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 25-26-35 and 36, marked on brass cap, T 34 S S 26 in NW.,

R 25 E S 25 in NE.,

S 36 in SE. and S 35 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate, 24 ins. deep.

subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land, covered with dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	S.89°58'E., on a random line, bet. secs. 25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.90	Intersect E.bdy. of Tp., 10 lks.S. of the re-established cor. of secs. 25-30-31 and 36, heretofore described. Thence I run
	S.89°58'W., on a true line,
	Bet. secs. 25 and 36.
	Gradual descent over rolling land, through dense under-growth.
13.00	Wash, 25 lks.wide, 6 ft. deep, course SW.
	Enter scattering timber.
39.95	Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 25 on N. half, S 36 on S.half, from which
	A cedar, 14 ins.diam., bears N.60°07'E., 167 lks.dist. marked $\frac{1}{4}$ S 25 BT.
	A cedar, 8 ins.diam., bears S.18°31'E., 166 lks.dist. marked $\frac{1}{4}$ S 36 BT.
48.00	Leave timber.
68.70	Wagon road bears NE. & SW.
79.90	The cor.of secs. 25-26-35 and 36.
	Land, rolling.
	Soil, rocky loam, 3rd.rate on first 20.00 chs.; balance, sandy loam, 1st.rate, 24 ins.deep. subsoil, gravel.
	Timber, scattering cedar and pinon.
	Land covered with dense uniergrowth on 79.90 chs.
	N.0°15'E., bet. secs. 25 and 26.
	Gradual ascent over rolling land, through dense under-growth.
26.00	Enter heavy timber, bears E.and W.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 26 on W. half, S 25 on E.half, from which
	A cedar, 5 ins.diam., bears N.58°57'E., 7 lks.dist. marked $\frac{1}{4}$ S 25 BT.
	A cedar, 8 ins.diam., bears S.68°31'W., 16 lks.dist., mkd. $\frac{1}{4}$ S 26 B T.

SUBDIVISIONS OF T. 34 S.. R. 25 E.

CHAINS

- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. od secs. 23-24-25-and 26, marked on brass cap, T 34 S S 23 in NW.,
R 25 E S 24 in NE.,
S 25 in SE. and S 26 in SW. quadrant, from which
A pinon, 12 ins. diam., bears N. 30° E. 59 lks. dist.,
marked T 34 S R 25 E S 24 BT.
A pinon, 7 ins. diam., bears S. $23^{\circ}30'$ E 203 lks.
dist., marked T 34 S R 25 E S 25 BT.
A pinon, 7 ins. diam., bears S. $67^{\circ}20'$ W. 64 lks.
dist., marked T 34 S R 25 E S 26 BT.
A pinon, 5 ins. diam., bears N. $39^{\circ}60'$ W. 54 lks.
dist., marked T 34 S R 25 E S 23 BT.
Land, rolling.
Soil, sandy loam, 1st. rate, 30 ins. deep.
Timber, heavy cedar and pinon, on last 54.00 chs.
Undergrowth, sage brush.
Land, heavily timbered or dense undergrowth on 80.00 chs.

August 24, 1911

August 25: At 8h. 02m. a.m., 1.m.t., I set off $37^{\circ}50'N$. on lat. arc, $11^{\circ}02'W$. on decl. arc, and determine a meridian with the solar, at the cor. of secs. 23-24-25 and 26,
Thence I run

N. $89^{\circ}58'W$. on a random line, bet. secs. 24 and 25.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.02 Intersect E. bdy. of Tp., 5 lks. S. of the re-established cor. of secs. 19-24-25 and 30, heretofore described.
Thence I run

S. $89^{\circ}56'W$. on a true line,

Bet. secs. 24 and 25.

Gradual ascent over rolling land, through dense under-growth.

- 35.00 Enter heavy timber, bears NE. and SW.
40.01 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 24 on N. half, S 25 on S. half, from which

SUBDIVISIONS OF T. 34 S. R. 25 E.

CHAINS

A cedar, 6 ins. diam., bears N. $14^{\circ}32' E.$ 85 lks.
dist., marked $\frac{1}{4}$ S 24 BT.

A pinon, 7 ins. diam., bears S. $29^{\circ}12' W.$ 62 lks.
dist., marked $\frac{1}{4}$ S 25 BT.

80.02 The cor. of secs. 23-24-25 and 26.

Land, rolling.

Soil, clay loam, from 25 to 30 ins. deep, 1st. rate. gravel
subsoil.

Timber, heavy cedar and pinon.

Undergrowth, sage brush.

Land heavily timbered, or covered with dense undergrowth
on 80.02 chs.

N. $0^{\circ}15' E.$, bet. secs. 23 and 24.

Gradual ascent over rolling land, through heavy timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 23 on W.
half, S 24 on E. half, from which

A cedar, 7 ins. diam., bears S. $78^{\circ}E.$ 6 lks. dist.,
marked $\frac{1}{4}$ S 24 BT.

A cedar, 5 ins. diam., bears N. $49^{\circ}10' W.$ 124 lks.
marked $\frac{1}{4}$ S 23 BT.

62.00 Leave heavy timber, bears E. and W., enter dense under-
growth.

67.10 Enter scattering timber, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins in the
ground, for cor. of secs. 13-14-23 and 24, marked on brass
cap, T 34 S S 14 in NW.,
R 25 E S 13 in NE.,

S 24 in SE. and S 23 in SW. quadrant, from which

A cedar, 5 ins. diam., bears S. $27^{\circ}32' E.$ 118 lks.
dist., marked T 34 S R 25 E S 24 BT.

A cedar, 12 ins. diam., bears S. $87^{\circ}W.$ 268 lks.
dist., marked T 34 S R 25 E S 23 BT. no other tree
within limits, dig pits, 18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dis
and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land, rolling.

SUBDIVISIONS OF T. 34 S. R. 25 E.

CHAINS

Soil, clay loam, 1st. rate. 24 ins. deep, subsoil gravel.
 Timber, first 62.00 chs. heavy cedar and pinon, last 12.90
 chs. scattering cedar and pinon.
 Undergrowth, sage brush.
 Land, heavily timbered, or scattering timber or dense
 undergrowth on 80.00 chs.

N.89°56'E., on a random line, bet. secs. 13 and 24.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect E.bdy. of Tp., 11 lks. N. of the re-established
 cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

N.89°59'W., on a true line,

Bet. secs. 13 and 24.

Gradual ascent over rolling land, through heavy timber.

39.99 Set an iron post, 3 ft. long, 1 in. dia., 26. ins in the
 ground, for $\frac{1}{4}$ sec. cor. marked on brass cap, $\frac{1}{4}$ S 13 on N.
 half, S 24 on S.half, from which

A cedar, 14ins. diam., bears N.51°56'E. 5 $\frac{1}{4}$ lks.
 dist., marked $\frac{1}{4}$ S 13 BT.

A cedar, 7 ins. diam., bears S.31°29'W. 81 lks.
 dist., marked $\frac{1}{4}$ S 24 BT.

70.00 Leave timber, bears NE. and SW. enter dense undergrowth.

79.98 The cor. of secs. 13-14-23 and 24.
 Land, rolling. Soil, clay loam, 24 to 30 ins. deep, 1 st. rate, gravel
 subsoil.

Timber, heavy cedar and pinon.

Undergrowth, sage brush.

Heavily timbered land, or land covered with dense under-
 undergrowth on 79.98 chs.

August 25: At this cor. I set off 10°58'N. on decl. arc,
 and observe the sun on the meridian, at Oh.02m., p.m., 1.m.
 t., the resulting lat. is 37°51'N.

N.0°15'E., bet. secs. 13 and 14.

Gradual ascent over rolling land, through dense under-

SUBDIVISIONS OF T. 3⁴ S. R. 25 E.

CHAINS	growth.
14.50	Enter heavy timber,bears E.and W.
32.00	Leave heavy timber,enter dense undergrowth.bears NE.and SW.
40.00	Set an iron post,3 ft. long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{4}$ S 14 on W. half,S 13 on E.half,dig pits,18x18x12 ins.,N.and S.of post 3 ft.dist. and raise a mound of earth,3 $\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high,W. of cor.
80.00	Set an iron post,3 ft.long,1 in.dia.,24 ins.in the ground,for cor.of secs.11-12-13 and 14,marked on brass cap,T 3 ⁴ S S 11 in NW., R 25 E S 12 in NE., S 13 in SE.and S 14 in SW.quadrant,dig pits,18x18x12 ins.in each sec.,5 $\frac{1}{2}$ ft.dist.,and raise a mound of earth 4 ft.base,2 ft.high,W. of cor. Land,rolling, Soil,clay loam, 24 to 30 ins.deep,gravel subsoil. Timber,heavy cedar and pinon, Undergrowth, sage brush. Land heavily timbered or covered with dense undergrowth on 80.00 chs.
40.00	S.89°59'E.on a random line,betsecs,12 and 13. Set temp. $\frac{1}{4}$ sec.cor.
80.00	Intersect the E.bdy. of Tp.03 lks.N.of the re-established cor. of secs.7-12-13 and 18,heretofore described. Thence I run N.89°58'W.,on a true line, Bet. secs. 12 and 13. Gradual ascent over rolling land,through heavy timber.
32.20	Leave timber,bears NE.and SW.enter undergrowth,dense.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{4}$ S 12 on N. half,S 13 on S. half,dig pits,18x18x12 ins.,E.and W.of post 3 ft.dist. and raise a mound of earth,3 $\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high, N.of cor.

SUBDIVISIONS OF T.34 S. R. 25 E.

CHAINS	
45.00	Enter timber,bears E. and W.
62.50	Leave heavy timber,bears E.and W.
80.00	The cor.of secs.11-12-13 and 14. Land,rolling. Soil,sandy loam, 24 to 30 ins.deep,1st.rate,with gravel subsoil. Timber, heavy cedar and pinon. Undergrowth,dense sage brush. Land heavily timbered,or land covered with dense under- growth on 80.00 chs.

August 25,1911.

August 30: At 8h.01m.,a.m.,l.m.t.,I set off $37^{\circ}52'N.$ on
lat.arc, $9^{\circ}17'N.$ on decl.arc, and determine a meridian
with the solar,at the cor.of secs.11-12-13 and 14.

Thence I run

N. $0^{\circ}15'E.$,betsecs.11 and 12

Gradual ascent over nearly level land,through dense
undergrowth.

40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins. in the ground, for $\frac{1}{4}$ sec. cor.,marked on brass cap, $\frac{1}{4}$ S 11 on W. half,S 12 on E.half,dig pits,18x18x12 ins.,N.and S.of post and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high W.of cor.
48.16	Telephone line,between Dolores,Colorado and Monticello Utah,bears E.and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins. in the ground,for the cor.of secs.1-2-11 and 12,marked on brass cap,T 34 S S 2 in NW., R 25 E S 1 in NE., S 12 in SE.and S 11 in SW.quadrant, and dig pits,18x 18x12 ins.in each sec., $5\frac{1}{2}$ ft.dist.,and raise a mound of earth ,4 ft.base,2 ft.high,W.of cor. Land,nearly level. Soil,sandyloam,from 24 to 30 ins.deep,1st.rate with a gravelsubsoil. No timber.

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS

Undergrowth, dense sage brush.

Land covered with dense undergrowth on 80.00 chs.

S.89°58' E., on a random line, bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.90 Intersect E.bdy. of Tp., 2 lks.S. of the re-established cor. of secs. 1-6-7 and 12, heretofore described.

Thence I run

N.89°59' W. on a true line,

Bet. secs. 1 and 12.

Gradual ascent, over rolling land, through heavy timber.

24.00 Pole fence, bears NE. and SW.

24.90 Pole corral, bears 30 lks.N.

39.95 Set an iron post, 3 ft. long, 1 in. dia., 26 ins in the ground, for $\frac{1}{4}$ sec. cor. marked on brass cap, $\frac{1}{2}$ S 1 on N. half, S 12 on S. half, from which

A pinon, 10 ins. diam., bears N.35°10' E. 178 lks.

dist., marked $\frac{1}{2}$ S 1 BT.

A cedar, 14 ins. diam., bears S.69°05' W. 140 lks.

dist., marked $\frac{1}{2}$ S 12 BT.

56.70 Leave timber, bears NE. and SW., enter dense undergrowth.

79.90 The cor. of secs. 1 - 2 - 11 and 12.

Land, rolling...

Soil, sandy loam, 24 to 30 ins. deep, 1st. rate, with a subsoil of gravel and sandstone.

Timber, cedar and pinon,

Undergrowth, dense sage brush.

Land heavily timbered or covered with dense undergrowth on 79.90 chs.

40.00 N.0°15' E. on a random line, bet. secs. 1 and 2.

Set temp. $\frac{1}{4}$ sec. cor.

81.54 Intersect the N.bdy. of Tp., 30 lks.E. of the cor. of secs. 1-2-35 and 36, which is a pinon post, 4 ins. diam., 24 ins. above ground, marked and witnessed as described by the surveyor general.

Thence I run.

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS	S.0°02'W., on a true line, Bet. secs. 1 and 2.
41.54	Gradual descent, over rolling land, through dense undergrowth. Set an iron post, 3 ft. long, 1 in. dia., 26 ins in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap., $\frac{1}{4}$ S 2 on W. half, S 1 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
81.54	The cor. of secs. 1-2+11 and 12. Land, rolling. Soil, sandy loam, 24 to 30 ins. deep, 1st rate, with gravel and sandstone subsoil. No timber. Undergrowth, dense sage brush. Land covered with dense undergrowth on 81.54 chs. August 30: At this cor. I set off $9^{\circ}13'$ N. on decl. arc, and at 0h. 0m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}53'$ N.
	August 30, 1911 <u>Eben B. Andrews</u> U.S. Transitman.

August 23: Survey commenced, and executed with the instrument described in book "A", of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows.

At the re-established cor. of secs. 2-3-34 and 35, on the S.bdy. of T.34 S., R.25 E., heretofore described, in approximate latitude $37^{\circ}49'$ N., longitude $109^{\circ}12'$ W., I set off $37^{\circ}49'$ N. on lat. arc, $11^{\circ}36'$ N. on decl. arc, and at 4h. 03m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground

SUBDIVISIONS OF T. 34 S.R. 25 E.

CHAINS

ground, 5 chs. N. of the cor.

At 9h. 28m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs. N. of my station.

August, 23, 1911

August 24: At 7 a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}29'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 8h. 03m., a.m., l.m.t., I set off $37^{\circ}49'N.$ on lat.arc, $11^{\circ}23'N.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.4 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations defines positions for meridians, respectively about $0'10''$ west and $0'21''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 30m., a.m. is $N.15^{\circ}40'W.$, the angle thus determined gives the mag.decl. $15^{\circ}40'E.$

From the cor. of secs. 2-3-34 and 35, already described, A log cabin, locally known as Byer's cabin, 10x18 ft. square, claimant unknown, used by local cattle men, as headquarters, bears $N.80^{\circ}55'E.$

Thence I run

$N.0'15'E.$, bet. secs. 34 and 35.

Gradual ascent over rolling land, through dense under-growth.

38.25

Enter scattering timber.

40.00

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 34$ on W.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	
	half, S 35 on E. half, from which A pinon, 7 ins. diam., bears S.83°06'W.128 lks. dist., marked $\frac{1}{4}$ S 34 B T A pinon, 6 ins. diam., bears S.40°01'E.49 lks. dist., marked $\frac{1}{4}$ S 35 B T From this cor. Byer's cabin, bears S.30°10'E.
45.52	Wire fence, bears NW. and SE.
47.10	Wagon road, bears NW. and SE.
50.90	Wash, 10 lks. wide, 4 ft. deep, course SE.
74.26	Leave scattering timber.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 26-27-34 and 35, marked on brass cap, T 34 S S 27 in NW., R 25 E S 26 in NE., S 35 in SE. and S 34 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, sandy loam, 15 to 24 ins. deep, 1st. rate. subsoil, gravel and sandstone. Timber, scattering cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth on 80.00 chs.
	S.89°58'E. on random line, bet. secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Fall 4 lks. S. of cor. of secs. 25-26-35 and 36. Thence I run West, on a true line, bet. secs. 26 and 35. Gradual descent over rolling land, through dense under- growth.
39.97	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 26 on N. half, S 35 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	
48.86	Wash, 8 lks.wide, 4 ft.deep, course SW.
54.84	Enter scattering timber.
60.48	Leave scattering timber.
79.94	The cor.of secs.26-27-34 and 35. Land, rolling. Soil, sandy loam, 24 to 30 ins.deep, 1st.rate. subsoil, gravel and sandstone. Timber, scattering cedar and piñon. Undergrowth, sage brush. Land covered with dense undergrowth on 79.94 chs. August 24: At this cor.I set off $11^{\circ}19'N.$ on decl.arc, and at Oh.03m., p.m., l.m.t., observe the sun on the meridian, the resulting lat.is $37^{\circ}49' N.$
	N. $0^{\circ}15'E.$,betsecs.26 and 27.
24.45	Gradual ascent over rolling land, through dense undergrowth. Enter scattering timber.
40.00	Set an iron post, 3 ft.long, 1in. dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 27$ on W. half, S 26 on E.half, from which A cedar, 11 ins.diam., bears N. $32^{\circ}15'E.$, 119 lks. dist., marked $\frac{1}{4} S 26$ BT. A cedar, 12 ins.diam., bears N. $79^{\circ}21'W.$, 160 lks. dist., marked $\frac{1}{4} S 27$ BT.
80.00	Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.22-23-26 and 27; marked on brass cap, T 34 S S 22 in NW., R 25 E S 23 in NE., S 26 in SE.and S 27 in SW.quadrant, from which A cedar, 10 ins.diam., bears S. $20^{\circ}30'E.$, 81 lks. dist., marked T 34 S R 25 E S 26 BT. A cedar, 9 ins.diam., bears S. $33^{\circ}40'W.$, 214 lks. dist., marked T 34 S R 25 E S 27 BT.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

No other trees with limits, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ' ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, sandy loam, from 12 to 18 ins. deep, 1st. rate.

subsoil, solid sandstone.

Timber, scattering cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

East, on a random line, bet. secs. 23 and 26.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

79.96 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 23-24-25 and 26.

Thence I run

N. $89^{\circ}59'W.$, on a true line,

Bet. secs. 23 and 26.

Gradual descent over rolling land, through heavy timber.

30.20 Leave timber, bears N. and S.

Enter dense undergrowth, and scattering timber.

✓ 39.98 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 23 on N. half, S 26 on S. half, from which

A cedar, 7 ins. diam., bears S. $76^{\circ}55'W.$, 120 lks. dist., marked $\frac{1}{4}$ S 26 BT.

A cedar, 5 ins. diam., bears N. $37^{\circ}53'W.$, 61 lks. dist., marked $\frac{1}{4}$ S 23 BT.

79.96 The cor. of secs. 22-23-26 and 27.

Land, rolling.

Soil, sandy loam, from 18 to 20 ins. deep, 1st. rate.

subsoil, sandstone.

Timber, cedar and pinon.

Heavily timbered land or land covered with dense undergrowth on 79.96 chs.

August 24, 1911

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	August 25: For solar observation see page 19, of this survey. N.0°15'E., bet. secs. 22 and 23. Gradual ascent over rolling land, through scattering timber and dense undergrowth.
6.28	Enter heavy timber, bears NE. and SW.
18.75	Wash, 8 lks. wide, 3 ft. deep, course NW.
33.20	Leave heavy timber, bears NE. and SW. Enter dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 22 on W. half, S 23 on E. half, from which A pinon, 6 ins. diam., bears N.17°40'W., 200 lks. dist., marked $\frac{1}{4}$ S 22 BT. A cedar, 7 ins. diam., bears N.14°50'E., 227 lks. dist., marked $\frac{1}{4}$ S 23 BT.
40.10	Wagon road, bears NE. and SW.
41.00	Wash, 8 lks. wide, 3 ft. deep, course SW.
41.85	Enter heavy timber, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked on brass cap, T 34 S S 15 in NW., R 25 E S 14 in NE., S 23 in SE. and S 22 in SW. quadrant, from which A cedar, 6 ins. diam., bears N.57°40'E., 79 lks. dist., marked T 34 S R 25 E S 14 BT. A pinon, 6 ins. diam., bears S.34°35'E., 39 lks. dist., marked T 34 S R 25 E S 23 BT.
	A cedar, 12 ins. diam., bears S.45°32'W., 86 lks. dist., marked T 34 S R 25 E S 22 BT.
	A cedar, 8 ins. diam., bears N.28°56'W., 12 lks. dist., marked T 34 S R 25 E S 15 BT.
	Land, rolling.
	Soil, rocky loam, from 18 to 24 ins. deep, 2nd. rate. subsoil, sandstone.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Heavily timbered land or land covered with dense under-

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

growth on 80.00 chs.

S.89°59'E., on a random line, bet. secs. 14 and 23.

Set temp. $\frac{1}{4}$ sec. cor.

Intersect the cor. of secs. 13-14-23 and 24.

Thence I run

N.89°59'W., on a true line, bet. secs. 14 and 23.

Gradual descent over rolling land, through dense undergrowth.

Enter heavy timber, bears NE. and SW.

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 14 on N. half, S 23 on S. half, from which

A pinon, 9 ins. diam., bears S.33°54'W., 12 lks.
dist., marked $\frac{1}{4}$ S 23 BT.

A pinon, 10 ins. diam., bears N.35°20'W., 41 lks.
dist., marked $\frac{1}{4}$ S 14 BT.

77.29

Wagon road, bears N. and S.

80.02

The cor. of secs. 14-15-22 and 23.

Land, rolling.

Soil, sandy loam from 15 to 24 ins. deep, 1st. rate.

Timber, cedar and pinon.

Undergrowth, sage brush.

Heavily timbered land or land covered with dense undergrowth on 80.02 chs.

August 25, 1911

Melvin D. Keist
U.S. Transitman

August 28: At 8h.0m., a.m., 1.m.t., I set off 37°51'N on lat. arc, 10°00'N on decl. arc, and determine a meridian with the solar, at the cor. of secs. 14-15-22 and 23.

Thence I run

N.0°15'E., bet. secs. 14 and 15.

Gradual ascent, over rolling land, through heavy timber.

38.20

Wagon road, bears NW. and SE.

40.00

Set an iron post, 3 ft. long, 1 in. dia. 26 ins. in the

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS

ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 15 on W.

half, S 14 on E. half, from which

A pinon, 5 ins.diam., bears N. $88^{\circ}37'$ E.15 lks.

dist., marked $\frac{1}{4}$ S 14 BT.

A pinon, 12 ins.diam., bears N. $39^{\circ}30'$ W.31 lks.

dist., marked $\frac{1}{4}$ S 15 BT.

41.50 Leave timber, bears E.andW.

63.00 Enter scattering timber, bears NE.and SW.

80.00 Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor. of secs.10-11-14 and 15, marked on brass cap, T 34 S S 10 in NW.,

R 25 E S 11 in NE.,

S 14 in SE.and S 15 in SW.quadrant, from which

A cedar, 9 ins.diam., bears N. $73^{\circ}10'$ E.40 lks.

dist., marked T 34 S R 25 E S 11 BT.

A pinon, 14 ins.diams., bears S. $62^{\circ}W.116$ lks.

dist., marked T 34 S R 25 E S 15 BT.

A pinon, 15 ins.diam., bears N. $73^{\circ}30'$ W.155 lks.

dist., marked T 34 S R 25 E S 10 BT.no other trees within limits, dig pits, 18x18x12 ins.in each sec.

$5\frac{1}{2}$ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.

high, W.of cor.

Land, rolling.

Soil, sandy loam, 24 to 30 ins.deep, 1st.rate, with a solid sandstone subsoil.

Timber, cedar and pinon.

Undergrowth, dense sage brush.

Heavily timbered land or land covered with dense undergrowth on 80.00 chs.,

S. $89^{\circ}59'$ E.on a random line,betsecs.11 and 14.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.00 Intersect,N.and S.line, 14 lks.N.of the cor.of secs.

11-12-13 and 14.

N. $89^{\circ}53'$ W., on a true line,

Bet. secs.11 and 14.

Gradual descent over rolling land, through dense under-

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS	
40.00	growth. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 11 on N. half, S 14 on S. half, dig pits, 18x18x12 ins., E. and W. or 3 ft. dist. post and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
64.00	Enter scattering timber, bears NW. and SE.
80.00	The cor. of secs. 10-11-14 and 15.., Land rolling. r. Soil, sandy loam, 24 to 30 ins deep, 1st. rate, with solid sandstone subsoil. Timber, pinon and cedar. Undergrowth, dense sage brush. Land covered with dense undergrowth on 80.00 chs.

August 28.1911

Aug.30:	For solar observation, see page 7.
	N. 0°15' E., bet. secs. 10 and 11. Gradual ascent over rolling land, through dense undergrowth, and scattering timber.
8.00	Leave scattering timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked on brass cap, $\frac{1}{4}$ S 10 on W. half, S 11 on E. half, dig pits, 18x18x12 ins., N. and S. of 3 ft. dist. post and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
48.20	Telephone line, between Doloras, Colorado and Monticello Utah, bears E. and W.
60.00	Wash, 8 lks. wide, 4 ft. deep, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 2-3-10 and 11, marked on brass cap, T 34 S 8 3 in NW., R 25 E S 2 in NE.; S 11 in SE. and S 10 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, rolling.

SUBDIVISIONS OF T. 34 S.R. 25 E.

CHAINS	Soil, sandy loam, 24 to 30 ins. deep, 1st. rate, with a solid sandstone subsoil. Timber, cedar and pinon. Undergrowth, dense sage brush. Land covered with dense undergrowth on the 80.00 chs.
40.00	S. 89° 53' E., on a random line, bet. secs. 2 and 11. Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect, N. and S. line, 16 lks.S. of the cor. of secs. 1-2-11 and 12. Thence I run West, on a true line, Bet. secs. 2 and 11.
17.90	Gradual descent over rolling land, through dense undergrowth.
40.01	Wash, 8 lks. wide, 3 ft. deep, course SW. Set an iron post, 3 ft. long, 1 in. dia., 26 ins in the ground, for $\frac{1}{4}$ sec. cor. marked on brass cap, $\frac{1}{4}$ S 2 on N. half, S 11 on S. half, dig pits, 18x18x12 ins., E. and W. ^{3 ft. dist.} of post, and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.02	The cor. of secs. 2-3-10 and 11. Land, rolling. Soil, sandy loam, 24 to 30 ins. deep, 1st. rate, with a solid sandstone subsoil. No timber. Undergrowth, dense sage brush. Land covered with dense undergrowth on 80.02 chs. For lat: observation see page 9. of this survey.
	August 30, 1911 <u>Eben B. Andrews</u> U.S. Transitman.
40.00	Aug. 30: At 8h Olm a.m.l.m.t., I set off 37° 53' on lat. arc; 9° 47' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 10 & 11. Thence I run N. 0° 15' E., on a random line, bet. secs. 2 and 3. Set temp. $\frac{1}{4}$ sec. cor.
81.45	Intersect the N. bdy. of Tp. 27 lks. east of the cor. of secs. 2-3-34 and 35, which is a cedar post, 4 ins. dia.,

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS

- 24 ins.above ground,marked and witnessed as described by the surveyor general.
 Thence I run
 S.0°03'W.,on a true line,
 Bet, secs. 2 and 3.
 Gradual descent over rolling land,through heavy timber,
 Leave heavy timber,bears E.and W.,enter dense under-growth.
 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked on brass cap, $\frac{1}{4}$ S 3 on W.,half,S 2 on E.half, from which
 A pinon,14 ins.diam.,bears S.88°24'E.154 lks.
 dist.,marked $\frac{1}{4}$ S 2 BT.
 A pinon,8 ins.diam.,bears N.37°31'W.73 lks.
 dist.,marked $\frac{1}{4}$ S 3 BT.
 The cor. of secs.2-3-10 and 11.
 Land,rolling.
 Soil,sandy loam,24 to 30 ins.deep,1st.rate,with a solid sandstone subsoil.
 Timber,heavy cedar and pinon.
 Undergrowth, dense sage brush.
 Land heavily timbered or land covered with dense undergrowth on 81.45 chs.

August 30,1911

- August 25: At 8h.02m.,a.m.,l.m.t.,I set off 37°49'N.,on lat.arc,11°03'N.on decl.arc, and determine a meridian with the solar at the re-established.cor.of secs.3-4-33 and 34,Tps.34 and 35 S.,R.25. E.,heretofore described.
 Thence I run
 N.0°14'E.,betsecs.33 and 34.
 Gradual ascent over rolling land,through dense under-growth.
 Set an iron post,3 ft.long,1 in.diam.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{4}$ S 33 on W.,half,S 34 on E.half,dig pits,18x18x12 ins.,N.and S.of post,3 ft.dist.,raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,W.of cor.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 27-28-33 and 34, marked on brass cap, T 34 S S 28 in NW.,
 R.25 E S 27 in NE.,
 S 34 in SE., and S 33 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling,

Soil, sandy loam, 15 to 24 ins. deep, 1st rate.

Subsoil, gravel and sandstone.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

S. 89°58' E. on random line, bet. secs. 27 and 34.

40.00

Set temp. $\frac{1}{4}$ sec. cor.

80.04

Intersect the N. and S. line, 2 lks. S. of the cor. of secs. 26-27-34 and 35.

Thence I run

N. 89°59' W. on a true line,

Bet, secs. 27 and 34.

Gradual ascent over rolling land, through dense undergrowth.

35.20

Wagon road, bears NW. and SE.

39.10

Wire fence, bears NW. and SE.

40.02

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 27 on N. half, S 34 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high, N. of cor.

80.04

The cor. of secs. 27-28-33 and 34.

Land, rolling, some flat.

Soil, rocky loam, 10 to 15 in. deep, 2nd. rate. sandstone. subsoil.

No timber.

Undergrowth, dense sage brush.

SUBDIVISIONS OF T. 3⁴ S.R. 25 E.

CHAINS	
	Land covered with dense undergrowth on the 80.04 chs.
	N.0°14'E., bet. secs. 27 and 28.
	Gradual ascent, over rolling land, through dense undergrowth.
23.50	Wire fence, bears NW. and SE.
25.50	Wagon road, bears NW. and SE.
27.10	Wash, 6 lks. wide, 3 ft. deep, course NW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 on W. half, S 27 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base. 1 $\frac{1}{2}$ ft. high, W. of cor.
56.10	Wagon road, bears NE. and SW.
76.14	Enter heavy timber, NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 21-22-27 and 28, marked on brass cap, T 3 ⁴ S S 21 in NW., R 25 S S 22 in NE., S 27 in SE. and S 28 in SW. quadrant, from which A pinon, 11 ins. diam., bears N.19°29'E. 101 lks. dist., marked T 3 ⁴ S R 25 E S 22 BT. A pinon, 8 ins. diam., bears S.48°22'E. 134 lks. dist., marked T 3 ⁴ S R 25 E S 27 BT. A pinon, 7 ins. diam., bears S.68°50' W. 58 lks. dist., marked T 3 ⁴ S R 25 E S 28 BT. A pinon, 10 ins. diam., bears N.47°53' W. 92 lks. dist., marked T 3 ⁴ S R 25 E S 21 BT.
	Land, rolling.
	Soil, rocky loam, 10 to 15 ins. deep on solid sandstone, 2nd. rate.
	Timber, pinon and cedar.
	Undergrowth, dense sage brush.
	Land heavily timbered or covered with dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS	S. $89^{\circ}59'W$.on a random line,bet.secs.22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N.and S. line,7 lks.S of the cor. of secs. 22-23-26 and 27.
	Thence I run
	S. $89^{\circ}58'W$.,on a true line,
	Bet.secs. 22 and 27.
	Gradual ascent through heavy timber,over rolling ground.
40.04	Set an iron post,3 ft.long,1 in.dia.,26 ins. in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{4}$ S 22 on N. half,S 27 on S.half,from which
	A pinon,8 ins.diam.,bears S. $16^{\circ}W$ 158 lks.dist., marked $\frac{1}{4}$ S 27 BT.
	A pinon,10 ins.diam.,bears N. $59^{\circ}55'W$.206 lks. dist.,marked $\frac{1}{4}$ S 22 BT.
61.57	Wagon road,bears NE.and SW..
80.08	The cor. of secs. 21-22-27 and 28.
	Land,rolling.
	Soil,rocky loam,10 to 15 ins deep,on solid sandstone, 2nd.rate.
	Timber, heavy pinon and cedar.
	Land heavily timbered on 80.08 chs.
	August 25:At this cor. I set off $10^{\circ}58'N$. on decl,arc, and at Oh.02m.,p.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is $37^{\circ}50'N$.
	----- August 25,1911
	<i>Melvin F. Kent</i> U.S.Transitman.
Aug.28:	For solar observation see page 15.
	N. $0^{\circ}14'E$,bet.secs. 21 and 22.
	Gradual ascent over rolling land, through heavy timber.
17.25	Abrupt descent over sandstone ledges,bears NE.and SW.
33.00	Wash,in bottom of Pearson Canyon, 18 lks. wide, 5 ft. deep, course SW.
	Along E.slope of canyon.
40.00	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS

ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 21 on W. half, S 22 on E. half, from which

A cedar, 17 ins. diam., bears N. $57^{\circ}32'$ W. 155 lks.

dist., marked $\frac{1}{4}$ S 21 BT. no other trees within limits, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

53.70 Wash. in bottom of Pearson Canyon, 15 lks. wide 3 ft. deep, course SE., canyon 75 ft. deep.

Abrupt ascent.

59.40 Top of abrupt ascent, sandstone ledges, 75 ft. above bottom of canyon, bears NW. and SE., leave timber, bears NW. and SE. Gradual ascent over rolling land, through dense undergrowth.

79.00 Abrupt descent over sandstone ledges, bears NE. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., $2\frac{1}{4}$ ins. in the ground, for cor. of secs. 15-16-21 and 22, marked on brass cap, T 34 S S 16 in NW.,

R 25 E S 15 in NE.,

S 22 in SE. and S 21 in SW. quadrant, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor., Pits impracticable.

Land, rolling and mountainous,

Soil, rocky loam, 8 to 10 ins. deep, the first 17.25 and the last 20 chs. 2nd. rate, with solid sandstone subsoil, balance: broken ledges and rocky, 4th. rate.

Timber, cedar and pinon.

Undergrowth, dense sage brush, and oak brush.

Mountainous land heavily timbered land or land covered with dense undergrowth on 80.00 chs.

August 28: At this cor. I set off 9 $58'$ N. on decl. arc; and at 00h. 01m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is $37^{\circ}51'N.$

N. $89^{\circ}58'E.$, on a random line, bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.04 Intersect N. and S. line, 9 lks S. of the cor. of secs.

CHAINS	14-15-22 and 23. Thence I run S.89°54'W., on a true line, Bet.secs.15 and 22. Gradual descent over rolling land, through heavy timber. Leave heavy timber, bears N. and S., enter dense undergrowth. Enter heavy timber, bears NE. and SW. Set an iron post, 3 ft. long, 1 in. dia., 26 in. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 on N. half, S 22 on S. half, from which A pinon, 6 ins. diam., bears N.62°40'E. 105 lks. dist., marked $\frac{1}{4}$ S 15 BT. A pinon, 5 ins. diam., bears S.17°05'W. 131 lks. dist., marked $\frac{1}{4}$ S 22 BT. Leave timber, bears N. and S. Enter heavy timber, bears NE. and SW. Leave heavy timber, bears NE. and SW. Abrupt descent over sandstone ledges, bears NE. and SW. 50 ft. above sec.cor. The cor. of secs. 15-16-21 and 22. Land, rolling, Soil, rocky loam, 10 to 15 ins. deep, 2nd. rate, with solid sandstone subsoil. Timber, heavy pinon and cedar. Undergrowth, dense sage and oak brush. Land heavily timbered or covered with dense undergrowth on 80.04 chs.
.80	N.0°14'E., bet.secs.15 and 16. Abrupt descent, through dense undergrowth. Wash, in bottom of Pearson Canyon, 15 lks. wide, 3 ft. deep, course SW.
5.80	Abrupt ascent. Top of sandstone ledges, 50 ft. above bottom canyon, bears NE. and SW., gradual ascent over rolling land.
26.00	Begin abrupt descent over sandstone ledges, bearing NW. and SE.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	
34.60	Bottom of fork of Pearson Canon, 100 ft. deep, course SE. Abrupt ascent.
40.00	Set an iron post, 3 ft. long, 1 in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 on W. half, S.15 on E. half, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
40.10	Top of abrupt ascent, bears NW. and SE., thence gradual ascent over rolling land, through dense undergrowth.
79.00	Wagon road, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked on brass cap, T 34 S S 9 in NW., R 25 E S 10 in NE., S 15 in SE. and S 16 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, rolling and mountainous. Soil, rocky loam, 10 to 15 ins. deep, on solid sandstone. No timber. Undergrowth, dense sage and oak brush. Land mountainous or covered with dense undergrowth on 80.00 chs.
40.00	N.89°54' E., on a random line, bet. secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.
30.02	Intersect, N. and S. line, 12 lks. N. of the cor. of secs. 10-11-14 and 15. Thence I run
	S.89°59' W. on a true line, Bet. secs. 10 and 15.
	Gradual descent over rolling land, through dense undergrowth, and scattering timber.
14.00	Leave scattering timber, bears N. and S.
18.00	Wagon road, bears NW. and SE.
21.90	Wash, 15 lks. wide, 3 ft. deep, course SW.
40.01	Set an iron post, 3 ft. long, 1 in dia., 26 ins. in the

CHAINS	ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 10 on N.E. half, S 15 on S.half, dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft. high, N.of cor.
62.10	Wagon road, bears NE.and SW.
80.02	The cor.of secs.9-10-15 and 16. Land, rolling. Soil, rocky loam, 10 to 15 ins.deep, 2nd.rate, the first 35.00 chs.balance; sandy loam 15 to 24 ins.deep, 1 st.rate, solid sandatone subsoil, on the 80.02 chs.
	Timber, scattering pinon and cedar. Undergrowth, sage brush. Land covered with dense undergrowth on the 80.02 chs.

August 28, 1911

Eben B. Andrews
U.S. Transitman.

August 30: For solar observation see page 18

N.0°14'E., betsecs.9 and 10.

Gradual ascent over rolling land, through dense under-growth.

40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 9 on W. half, S 10 on E.half, dig pits, 18x18x12 ins.N.and S. of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base $1\frac{1}{2}$ ft.high, W. of cor.
48.82	Telephone line, from Dolores Colorado, to Monticello Utah, bears, E.and W.
80.00	Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor. of secs.3-4-9 and 10, marked on brass cap, T 34 S 8 4 in NW., R 25 E S 3 in NE., S 10 in SE.and S 9 in SW.quadrant, dig pits, 18x18x12 ins.each sec., $5\frac{1}{2}$ ft.dist., and raise a mound of earth 4 ft.base, 2 ft.high, W.of cor. Land, rolling.

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS

	Soil, sandy loam, 15 to 20 ins. deep, 1st. rate. subsoil, gravel and sandstone.
	No timber.
	Undergrowth, sage brush.
	Land covered with dense undergrowth on 80.00 chs.
	August 30: At this cor. I set off $9^{\circ}13'N.$ on decl. arc, and at Oh.Olm., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}53'N.$
40.00	N. $89^{\circ}59'E.$, on a random line, bet. secs. 3 and 10. Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect N. and S. line, 12 lks.N. of the cor. of secs. 2-3-10 and 11. Thence I run N. $89^{\circ}56'W.$, on a true line, Bet. secs. 3 and 10. Gradual ascent over rolling land, through dense under- growth.
35.00	Wash, 75 lks.wide, 25 ft. deep, course SW.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 3$ on N. half, S 10 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.98	The cor. of secs. 3-4-9 and 10. Land, rolling. Soil, sandy loam, from 24 to 30 ins. deep, 1st rate. subsoil, gravel and sandstone.
	No timber.
	Undergrowth, sage brush.
	Land covered with dense undergrowth on 79.98 chs.
40.00	N. $0^{\circ}14'E.$, on a random line, bet. secs. 3 and 4. Set temp. $\frac{1}{4}$ sec.cor.
81.30	Intersect N.bdy. of Tp., 28 lks.E. of the cor. of secs. 3-4-33 and 34, which is a sandstone, 8x14x3 ins. above ground, marked and witnessed as described by the surveyor

SUBDIVISIONS OF T.34 S., R.29 E.

CHAINS

general.

Thence I run

S.0°02'W., on a true line,

Bet. secs. 3 and 4.

Gradual descent over rolling land, through dense undergrowth.
 41.30 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 34 W. on N. half, S 3 on E. half, dig pits. 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

81.30 The cor. of secs. 3-4-9 and 10.

Land, rolling.

Soil, sandy loam, from 24 to 30 ins. deep, 1st. rate.

subsoil, gravel and sandstone.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 81.30 chs.

August 30, 1911

August 26: At 8h.02m., a.m., 1.m.t., I set off $37^{\circ}49'N.$ on Int. arc, $10^{\circ}41'W.$ on decl. arc, and determine a meridian with the solar at the re-established cor. of secs. 4-5-32 and 33, heretofore described on the S.bdy. of the Tp.
 Thence I run

N.0°13'E., bet. secs. 32 and 33.

Descent over rocky and mountainous land, through heavy timber.

3.00 Holes, 10 ft. deep, course NW.

An abrupt ascent.

6.34 Top of abrupt ascent, bears NW. and S.E.

Ascend over broken and rocky land.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 32 on W. half, S 33 on E. half, from which

A pitch, 7 ina. diam., bears N.50°E., 14 lms. dist.

marked $\frac{1}{2}$ S 33 by.

SUBDIVISIONS OF T. 34 S.R. 25 E.

CHAINS	A pinon, 6 ins. diam., bears N. $49^{\circ}05'W.$ 43 lks. dist., marked $\frac{1}{4}$ S 32 BT.
40.10	Wash, 15 lks. wide, 5 ft. deep, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 28-29-32 and 33, marked on brass cap, T 34 S R 29 in NW., R 25 E S 28 in NE., S 33 in SE. and S 32 in SW. quadrant, from which A pinon, 7 ins. diam., bears N. $1^{\circ}39'E.$, 39 lks. dist., marked T 34 S R 25 E S 28 BT.
	A cedar, 9 ins. diam., bears S. $81^{\circ}15'E.$, 44 lks. dist., marked T 34 S R 25 E S 33 BT.
	A pinon, 8 ins. diam., bears S. $37^{\circ}30'W.$, 92 lks. dist., marked T 34 S R 25 E S 32 BT.
	A cedar, 14 ins. diam., bears N. $65^{\circ}40'W.$, 103 lks. dist., marked T 34 S R 25 E S 29 BT.
	Land, rolling and mountainous.
	Soil, rocky loam, 8 to 10 in deep, on solid sandstone, 2nd. rate.
	Timber, heavy pinon and cedar.
	Land mountainous and covered with heavy timber on 80.00 chs.
	August 26: The sky is overcast and lat. observations are impossible.
40.00	S. $89^{\circ}58'E.$ on a random line, bet. secs. 28 and 33. Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect, N. and S. line, 3 lks. S. of the cor. of secs. 27-28-33 and 34 Thence I run N. $89^{\circ}59'W.$, on a true line, Bet. secs. 28 and 33.
	Gradual descent over rolling land, through, dense under- growth.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 on N. half, S 33 on S. half, dig pits, 18x18x12 ins., E. and W. of

SUBDIVISIONS OF T. 34 S.R. 25 E.

CHAINS	post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
61.70	Enter heavy timber, bears NE. and SW.
80.02	The cor. of secs. 28-29-32 and 33 Land, rolling. Soil, sandy loam, 24 to 30 ins. deep, 1st. rate, first 61.70 chs. balance; rocky loam, 15 to 20 ins. deep, 2nd. rate, solid sandstone subsoil. Timber, heavy cedars and pinon. Undergrowth, sage brush. Heavily timbered, land or land covered with dense under- growth on 80.02 chs.

August 26, 1911

August 28: At Sh.Olm., a.m., l.m.t., I set off $37^{\circ}49'N.$ on lat. arc, $10^{\circ} 00'W.$ on decl. arc, and determine a meridian with the solar at the cor. of secs. 28-29-32 and 33.

Thence I run

N. $0^{\circ}13'E.$, bet. secs. 28 and 29.

Descend over rocky land, through heavy timber.

23.00	Begin abrupt descent over sandstone ledges, bearing NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 29$ on W. half, S 28 on E. half, from which A pinon, 9 ins. diam., bears $S.35^{\circ}08'E.$, 155 lks. dist. marked $\frac{1}{4} S 28$ BT. A cedar, 6 ins. diam., bears $S.22^{\circ}30'W.$, 16 lks. dist., marked $\frac{1}{4} S 29$ BT.
41.23	Bottom of Pearson Canyon, 200 ft. deep, course SW. Abrupt ascent over sandstone ledges.
50.15	Top of abrupt ascent, bears NE. and SW. Gradual ascent over rolling land.
58.30	Leave timber, bears NE. and SW. Enter dense undergrowth.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked on brass

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

cap, T 34 S 3 20 in NW.,
 ✓ R 25 E S 21 in NE.,
 ✓ S 28 in SE. and S 29 in SW. quadrant, dig pits, 18x18x12 ins.,
 in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4
 ft. base, 2 ft. high, W. of cor.

Land, rolling and mountainous.

Soil, rocky and solid sandstone, 4th rate on first 50.15
 chs.; balance, sandy loam, from 12 to 20 ins. deep,
 1st. rate.

Subsoil, solid sandstone

Timber, cedar and pinon.

Undergrowth, sage brush.

Heavily timbered land, mountainous land or land covered
 with dense undergrowth on 80.00 chs.

August 28: At this cor. I set off 9°56' N. on decl. arc, and
 at 0h.01m., p.m., observe the sun on the meridian, the
 resulting lat. is 37°50' N.

S.89°59'E., on a random line, bet. secs. 21 and 28.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.06 Intersect N. and S. line, 9 lks. S. of the cor. of secs.
 21-22-27 and 28.

Thence I run

S.89°57'W., on a true line,

Bet. secs. 21 and 28.

Gradual descent over rolling land, through heavy
 timber.

21.10 Leaves heavy timber, bears NE. and SW.

23.00 Begin abrupt descent over sandstone ledges, bearing
 NE. and SW.

40.03 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 21 on N.
 half, S 28 on S. half, and raise a mound of stone, 2 ft. base
 $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

46.60 Bottom of Pearson Canyon, 150 ft. deep, course SW.

SUBDIVISIONS OF T.3⁴ S., R.25 E.

CHAINS	Abrupt ascent over broken ledges.
54.00	Top of abrupt ascent, bears NE. and SW.
	Enter heavy timber, bears NE. and SW.
	Gradual descent over rolling land.
59.00	Leave timber, bears NE. and SW.
	Enter dense undergrowth.
80.06	The cor. of secs. 20-21-28 and 29. Land, rolling and mountainous. Soil, sandy loam, from 12 to 24 ins. deep, 1st. rate on last 26.06 chs.; balance, rocky and solid sandstone, 4th. rate. subsoil, solid sandstone.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Heavily timbered land, mountainous land or land covered with dense undergrowth on 80.06 chs.

August 28, 1911

August 29: At 8h.01m., a.m., l.m.t., I set off $37^{\circ}50'N$. on
lat.arc, $9^{\circ}38'N$. on decl.arc, and determine a meridian
with the solar, at the cor.of secs. 20-21-28 and 29.
Thence I run

N. $0^{\circ}13'E.$, bet. secs. 20 and 21.Gradual ascent over rolling land, through dense under-
growth.

5.30	Enter heavy timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 20$ on W. half, S 21 on E. half, from which A pinon, 8 ins. diam., bears N. $50^{\circ}18'E.$, 144 lks.dist., marked $\frac{1}{4} S 21$ BT.
	A pinon, 6 ins. diam., bears N. $83^{\circ}44'W.$, 91 lks.dist., marked $\frac{1}{4} S 20$ BT.
41.50	Leave timber, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor.of secs. 16-17-20 and 21, marked on brass

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	
	cap, T 34 S S 17 in NW.,
	R 25 E S 16 in NE.,
	S 21 in SE. and S 20 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling.
	Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate.
	subsoil, gravel.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Land covered with dense undergrowth or heavily timbered land on 80.00 chs.
	August 29: At this cor. I set off $9^{\circ}34'N.$ on decl. arc, and at Oh. Olm., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}51'N.$
	<hr/>
	N. $89^{\circ}57'E.$, on a random line, bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 15-16-21 and 22.
	Thence I run
	S. $89^{\circ}58'W.$, on a true line,
	Bet. secs. 16 and 21.
	Descend over rocky and mountainous land, through dense undergrowth.
4.10	Bottom of Pearson Canyon, 150 ft. deep, course SW.
	Abrupt ascent over broken ledges.
13.54	Top of abrupt ascent, bears NE. and SE.
	Gradual ascent over rolling land.
17.00	Enter heavy timber, bears NE. and SW.
27.70	Leave timber, bears NE. and SW.
40.04	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 16 on N. half, S 21 on S. half, from which
	A pinon, 6 ins. diam., bears N. $28^{\circ}26'E.$, 54 lks. dist., marked $\frac{1}{4}$ S 16 BT.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	
	No other trees within limits, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.08	The cor. of secs. 16-17-20 and 21. Land, mountainous and rolling. Soil, rocky and broken ledges, 4th. rate on first 13.54 chs balance, sandy loam from 12 to 24 ins. deep, 1st rate. subsoil, solid sandstone and gravel. Timber, cedar and pinon. Undergrowth, sage brush and oak brush. Mountainous land, heavily timbered land or land covered with dense undergrowth on 80.08 chs.
	Aug. 29, 1911.
	August 30: N. 0° 13' E., bet. secs. 16 and 17. Gradual ascent over rolling land, through dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 17 on W. half, S 16 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
79.65	Road, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24. ins. in the ground, for cor. of secs. 8-9-16 and 17, marked on brass cap T 34 S S 8 in NW., R 25 E S 9 in NE., S 16 in SE. and S 17 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate. subsoil, gravel. No timber. Undergrowth, sage brwsh. Land covered with dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	
	N. $89^{\circ}58' E.$, on a random line, bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 9-10-15 and 16.
	Thence I run
	S. $89^{\circ}57' W.$, on a trueiline,
	Bet. secs. 9 and 16.
	Gradual ascent over rolling land, through dense undergrowth.
1.20	Wagon road, bears NW. and SE.
13.65	Wash, 100 lks. wide, 25 ft. deep, course SE.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 9$ on N. half, $S 16$ on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
78.00	Road, bears NE. and SW.
80.02	The cor. of secs. 8-9-16 and 17.
	Land, rolling.
	Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate.
	subsoil, gravel.
	No timber.
	Undergrowth, sage brush.
	Land covered with dense undergrowth on 80.02 chs.
Note:	Latitude observation for August 30, see page 27.
	<u>August 30, 1911.</u>
	August 31: At 8h.01m., a.m., 1.m.t., I set off $37^{\circ}52' N.$ on lat. arc, $8^{\circ}56' N.$ on decl. arc, and determine a meridian with the solar at the cor. of secs. 8-9-16 and 17.
	Thence I run
	N. $0^{\circ}13' E.$, bet. secs. 8 and 9
	Gradual ascent over rolling land, through dense undergrowth.
29.50	Wagon road, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 8$ on W. half

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

S.9 on E.half,dig pits,18x18x12 ins.,N.and S.of post,
3 ft.dist.,and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.
high,W.of cor.

49.20 Telephone line,bet.Monticello,Utah and Dolores,Colorado,
bears E.and W.

80.00 Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the
ground,for cor.of secs.4-5-8 and 9,marked on brass cap,
T.34 S 8 5 in NW.,
R 25 E 8 4 in NE.,
S 9 in SE.and S 8 in SW.quadrant,dig pits,18x18x12 ins.,
in each sec., $5\frac{1}{2}$ ft.dist.,and raise a mound of earth, $4\frac{1}{2}$
ft.base, 2 ft high,W.of cor.

Land,rolling.

Soil,sandy loam,from 20 to 30 ins.deep,1st.rate.

subsoil,gravel.

No timber.

Undergrowth,sage brush.

Land covered with dense undergrowth on 80.00 chs.

N. $39^{\circ}57' E.$,on a random line,betsecs.4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.04 Intersect N.and S.line,5 lks.N.of the cor.of secs.
3-4-9 and 10.

Thence I run

S. $89^{\circ}59' W.$,on a true line,

Bet.secs.4 and 9.

Gradual ascent over rollingland,through dense undergrowth.

40.02 Set an iron post,3 ft.long,1 in.dia.,26 ins.in the
ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{4}$ S 4 on N.
half,S 9 on S.half,dig pits,18x18x12 ins.,E.and W.of post,
3 ft.dist.,and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.
high,N.of cor.

40.03 Wash,50 lks.wide,20 ft.deep,course SE.

80.04 The cor.of secs.4-5-8 and 9.

Land,rolling.

Soil,sandy loam,from 20 to 30 ins.deep,1st.rate.

subsoil,gravel.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

- No timber.
Undergrowth, sage brush.
Land covered with dense undergrowth on 80.04 chs.
-
- N.0°13' E., on a random line, bet. secs. 4 and 5.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect N.bdy. of Tp., 25 lks. E. of the cor. of secs. 4-5-32 and 33, which is a cedar post, 4 ins. diam., projecting 18 ins. above the ground, marked and witnessed as described by the surveyor general.
Thence I run
S.0°02' W., on a trueline,
Bet. secs. 4 and 5.
Gradual descent over rolling land, through heavy timber.
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 on W. half, S 4 on E. half, from which
A pinon, 10 ins. diam., bears N.85°10' E 71 lks. dist., marked $\frac{1}{4}$ S 4 BT.
A pinon, 7 ins. diam., bears N.34°54' W. 51 lks. dist., marked $\frac{1}{4}$ S 5 BT.
Leave timber, bears E. and W., enter dense undergrowth.
The cor. of secs. 4-5-8 and 9.
Land, rolling,
Soil, sandy loam, 24 to 30 ins. deep, 1st. rate, with gravel subsoil.
Timber, heavy cedar and pinon.
Undergrowth, dense sage brush.
Land heavily timbered or land covered with dense undergrowth on 81.31 chs.
August 31: At this cor. I set off 8°52' N. on decl. arc, and at Oh. Olm., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37°53' N.

August 31, 1911

Melvin L. Furst
U.S. Transitman.

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS

August 26: At 8h.02m., a.m., l.m.t., I set off $37^{\circ}49'N.$
on lat.arc, $10^{\circ}41'N.$ on decl.arc, and determined a meridian
with the solar at the re-established cor. of secs.
5-6-31 and 32, heretofore described on the S.bdy. of the
Tp.

Thence I run

$N.0^{\circ}13'W.$, bet. secs. 31 and 32.

Gradual ascent, through heavy timber.

15.00 Begin abrupt ascent.

16:70 Top of sandstone ledges, 125 ft. high, bears NE. and SW.

22.10 Gradual ascent over rolling land.

22,10 Leave timber, bears NE. and SW., enter bense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 31$ on W.
half, $S 32$ on E. half, dig pits, $18 \times 18 \times 12$ ins., N. and S. of
post; 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.

56.30 Enter heavy timber, bears NE. and SW.

75.00 Leave heavy timber, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the
ground, for cor.of secs. 29-30-31 and 32, marked on brass
cap, T 34 S S 30 in NW.,

R 25 E S 29 in NE.,

S 32 in SE. and S 31 in SW. quadrant, dig pits, $18 \times 18 \times 12$
ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth
4 ft. base, 2 ft. high, W. of cor.

Land, rolling and mountainous.

Soil, rocky loam, 10 to 15 ins. deep, on solid sandstone,

2nd. rate, on first 16.70 chs. balance: sandy loam

24 to 30 ins. deep, on solid sandstone, 1st. rate.

Timber, heavy cedar and pinon.

Undergrowth, dense sage brush.

Mountainous land, heavily timbered land, or land covered w/
dense undergrowth on 80.00 chs.

S. $39^{\circ}58'E.$, on a random line, bet. secs. 29 and 32.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

CHAINS 79.96	Intersect, N. and S. line, 8 lks. S. of the cor. of secs. 28-29-32 and 33. Thence I run S: $89^{\circ}59'W.$, on a true line, Bet. secs. 29 and 32.
8.90	Gradual descent over rolling land, through heavy timber.
31.80	A abrupt descent over sandstone ledges, 150 ft. high, bears NE. and SW., scattering timber and dense undergrowth.
✓ 39.98	Bottom of Pearson Canyon, 150 ft. deep, course SW. Abrupt ascent. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 29 on N. half, S 32 on S. half, from which A pinon, 16 ins. dia., bears S. $86^{\circ}40'W.$ 18 lks. dist., marked $\frac{1}{4}$ S 32 BT. A pinon, 12 ins. dia., bears N. $2^{\circ}05'W.$ 50 lks. dist., marked $\frac{1}{4}$ S 29 BT.
51.40	Top of abrupt ascent, sandstone ledges 150 ft. high, bears NE. and SW., leave scattering timber, enter heavy timber. Gradual ascent over rolling land.
74.00	Leave heavy timber, bears NE. and SW.
79.96	The cor. of secs. 29-30-31 and 32 Land, rolling and mountainous. Soil: broken ledges and rocky on first 74.00 chs; 3rd. rate balance: sandy loam, from 15 to 24 ins. deep, 1st. rate solid sandstone subsoil. Timber, pinon and cedar. Undergrowth, dense sage and oak brush. Land, mountainous and heavily timbered or covered with dense undergrowth on 79.96 chs.
	August 26: At this cor. I set off $10^{\circ}38'N.$ on decl. arc, and at 0h. 02m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}49'N.$
40.00	N. $89^{\circ}58'W.$ on a random line, bet. secs 30 and 31. Set temp. $\frac{1}{4}$ sec. cor.
78.20	Intersect the W. bdy. of Tp. 9 lks. S. of the cor. of secs.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

25-30-31 and 36, heretofore described.

Thence I run

S.89°54'E., on a true line,

Bet. secs. 30 and 31.

Gradual descent over rolling land, through dense under-growth.

38.20 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 on N. half, S 31 on S. half, dig pits, 18x18x12 ins., E. and W. of post, $\frac{3}{4}$ ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

78.20 The cor. of secs. 29-30-31 and 32.

Land, rolling.

Soil, sandy loam, from 24 to 30 ins. deep, 1st. rate.

subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 78.20 chs.

N.0°13'E., bet. secs. 29 and 30.

Gradual ascent over rolling land, through dense under-growth.

7.30 Enter scattering timber.

18.00 Begin abrupt descent over sandstone ledges, bearing NW. and SE.

21.30 Hollow, 75 ft. deep, course SE.

Abrupt ascent.

25.50 Top of abrupt ascent, bears NW. and SE.

Gradual ascent over rolling land. Leave timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 on W. half, S 29 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

50.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked on brass

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	cap, T 34 S S 19 in NW., R 24 E S 20 in NE., S 29 in SE. and S 30 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling and mountainous. Soil, sandy loam, from 12 to 24 ins. deep on 72.50 chs. balance, rocky and sandstone ledges, 4th. rate. subsoil, gravel and sandstone. Timber, scattering cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth or mountainous land on 80.00 chs.
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August 26, 1911

	August 29: At 8h.01m., a.m., l.m.t., I set off $37^{\circ}50'N$. on lat.arc, $9^{\circ}38'N$. on decl.arc, and determine a meridian with the solar at the cor.of secs. 19-20-29 and 30. Thence I run N. $89^{\circ}59'E$., on a random line, bet.secs. 20 and 29. Set temp. $\frac{1}{4}$ sec.cor. Intersect N. and S. line, 3 lks.N. of the cor.of secs. 20-21-28 and 29. Thence I run West, on a true line, bet.secs. 20 and 29. Gradual ascent over rolling land, through dense under- growth. Enter heavy timber, bears NW. and SE. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 20 on N. half, S 29 on S.half, from which A pinon, 14 ins. diam., bears N. $48^{\circ}30'E$., 24 lks.dist. marked $\frac{1}{4}$ S 20 BT. A pinon, 8 ins. diam., bears S. $56^{\circ}59'W$., 13 lks.dist., marked $\frac{1}{4}$ S 29 BT. Leave timber, bears N. and S.
40.00	
79.94	
22.00	
39.97	
47.20	

SUBDIVISIONS OF T.34 S., R.25 E.

-42-

CHAINS	
52.50	Wash, 50 lks. wide, 10 ft. deep, coarse S.
79.94	The cor. of secs. 19-20-29 and 30. Land, rolling. Soil, sandy and rocky loam from 12 to 24 ins. deep, 1st. and 2nd. rate. subsoil, gravel and sandstone. Timber, cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth or heavily timbered land on 79.94 chs.
40.00	N. 89° 54' W., on a random line, bet. secs. 19 and 30. Set temp. $\frac{1}{4}$ sec. cor.
78.65	Intersect W. bdy. of Tp., 12 lks. S. of the cor. of secs. 19-24-25 and 30, heretofore described. Thence I run S. 89° 49' E., on a true line, Bet. secs. 19 and 30. Gradual descent over rolling land, through dense undergrowth.
38.65	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 on N. half, S 30 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
78.65	The cor. of secs. 19-20-29 and 30. Land, rolling. Soil, sandy loam, from 24 to 30 ins. deep, 1st. rate. subsoil, gravel. No timber. Undergrowth, sage brush. Land covered with dense undergrowth on 78.65 chs. August 29: At this cor. I set off 9° 34' N. on decl. arc., and at 0h. 61m., p.m., 1.m.t., observe the sun on the meridian, the resulting lat. is 37° 50' N.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS	
	N.0°13'E., bet. secs. 19 and 20.
	Gradual ascent over rolling land, through dense under-growth.
27.50	Enter heavy timber, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 on W. half, S 20 on E. half, from which A pinon, 1 $\frac{1}{4}$ ins. diam., bears S.15°20'W., 187 lks. dist., marked $\frac{1}{4}$ S 19 BT. A cedar, 8 ins. diam., bears S.36°05'E., 176 lks. dist., marked $\frac{1}{4}$ S 20 BT.
71.00	Leave heavy timber, bears E. and W.
	Enter scattering timber.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 17-18-19 and 20, marked on brass cap, T 34 S S 18 in NW., R 25 E S 17 in NE., S 20 in SE. and S 19 in SW. quadrant, from which A cedar, 11 ins. diam., bears S.48°30'E., 64 lks. dist., marked T 34 S R 25 E S 20 BT. A pinon, 7 ins. diam., bears S.38°W., 108 lks. dist., marked T 34 S R 25 E S 19 BT.
	No other trees within limits, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling.
	Soil, sandy and rocky loam, from 12 to 24 ins. deep, 1st. and 2nd. rate.
	subsoil, gravel and solid sandstone.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Land covered with dense undergrowth or heavily timbered land on 80.00 chs.

SUBDIVISIONS OF T.34 S., R.25 E.

- CHAINS East, on a random line, bet. secs. 17 and 20.
 40. 0 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect N. and S. line, 13 lks. S. of the cor. of secs.
 16-17-20 and 21.
 Thence I run
 8.89°54'W., on a true line,
 Bet. secs. 17 and 20.
 Gradual ascent over rolling land, through dense undergrowth.
 30.50 Wash, 25 lks. wide, 8 ft. deep, course S.
 39.99 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 17 on N. half, S 20 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. or cor.
 79.98 The cor. of secs. 17-18-19 and 20.
 Land, rolling.
 Soil, sandy loam from 20 to 30 ins. deep, 1st. rate.
 subsoil, gravel.
 No timber.
 Undergrowth, sage brush.
 Land covered with dense undergrowth on 79.98 chs.

August 29, 1911

August 31: At 8h. 0lm., a.m., l.m.t., I set off 37°51'N. on lat. arc, 8°56'N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20. Knowing from a retracement of the west bdy. of the Tp., that the line bet. secs. 18 and 19 will not close within limits on the W. bdy., I run

N.89°49'W., on a true line,
 Bet. secs. 18 and 19.

Gradual ascent over rolling land, through dense undergrowth.

- 9.50 Enter heavy timber, bears N. and S.
 16.50 Leave timber, bears N. and S.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

40.00

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18 on N. half, S 19 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

78.76

Intersect W.bdy. of Tp., at S.0°07'W., 72 lks. from the cor. secs. 13-18-19 and 24, heretofore described.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 18 and 19, marked on brass cap, T 34 S on N. half,

R 24 E S 13 S 24 CC on W. half,

R 25 E S 18 in NE. and S 19 in SE. quadrant, dig pits, 24x18x12 ins., crosswise on each line, N. and S., 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

I destroy all marks on the cor. of secs. 13-18-19 and 24 that pertain to R.25 E.

Land, rolling.

Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate. subsoil, gravel.

Timber, cedar and pinon.

Land covered with dense undergrowth or heavily timbered land on 78.76 chs.

N.0°13'E., bet. secs. 17 and 18.

Gradual ascent over rolling land, through dense undergrowth.

19.50

Enter scattering timber.

40.00

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18 on W. half, S 17 on E. half; from which

A pinon, 20 ins. diam., bears S.79°30'W., 21 lks. dist. marked $\frac{1}{4}$ S 18 BT.

A pinon, 14 ins. diam., bears N.78°32'E., 26 lks. dist., marked $\frac{1}{4}$ S 17 BT.

SUBDIVISIONS OF T.34 S.R.25 E.

-46-

CHAINS	
54.00	Leave timber,bears E.and W.
66.12	Old wagon road,bears E.and W.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins.in the ground,for cor.of secs.7-8-17 and 18,marked on brass cap,T 34 S S 7 in NW., R 25 E S 8 in NE., S 17 in SE.and S 18 in SW.quadrant,dig pit,18x18x12 ins.in each sec. $5\frac{1}{2}$ ft.dist.,and raise a mound of earth 4 ft.base,2 ft.high,W.of cor. Land,rolling. Soil,sandy loam,from 15 to 24 ins.deep,1st.rate,with some gravel subsoil. Timber,pinon and cedar., Undergrowth,dense sage brush. Heavily timbered land or land covered with dense undergrowth on 80.00 shs.
	N. $89^{\circ}54'$ E.on a random line,betsecs.8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.96	Intersect,N.and S.line,5 lks.N. of the cor.of secs.8-9-16 and 17. Thence I run S. $89^{\circ}56'$ W.on a true line, Bet.secs. 8 and 17. Gradual ascent over rolling land,through dense undergrowth.
26.00	Enter heavy timber,bears N.and S.
39.98	Set an iron post,3 ft. long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{4}$ S 8 on N. half,S 17 on S.half,from which A pinon,7 ins.diam.,bears N. $59^{\circ}40'$ E.39 lks. dist.,marked $\frac{1}{4}$ S 8 BT. A pinon,12 ins.diam.,bears S $6^{\circ}35'$ W.57 lks. dist.,marked $\frac{1}{4}$ S 17 BT.
76.40	Leave heavy timber,bears N.and S.
79.96	The cor.of secs.7-8-17 and 18.

SUBDIVISIONS OF T.34 S.R.25 E.

CHAINS

Land, rolling.

Soil, sandy loam, from 24 to 30 ins., deep, 1st. rate, with
a gravel subsoil.

Timber, heavy pinon and cedar.

Undergrowth, dense sage brush.

Land heavily timbered or land covered with dense under-
growth on 79.96 chs.August 31: At this cor. I set off $8^{\circ}52'N.$ on decl, arc,
and at Oh.Olm.p.m.; l.m.t., observe the sun on the meridian,
the resulting lat. is $37^{\circ}52'N.$ Knowing from retrace ment of the W.bdy.of the Tp. that the
line bet.secs.7 and 18 will not close within limits on
the W.bdy.of the Tp., I runN. $89^{\circ}49'W.$, on a trueline,

Bet.secs.7 and 18.

Gradual ascent over rolling land, through dense under-
growth.40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the
ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 7$ on N.
half, S 18 on S.half, dig pits, 18x18x12 ins., E.and W.of
post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base,
 $1\frac{1}{2}$ ft.high, N.of cor.78.98 Intersect W.bdy.of Tp., 73 lks.S.of the cor.of secs.
7-12-13 and 18, heretofore described.Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the
ground, for closing cor.of secs.7 and 18, marked on brass
cap, T $3\frac{1}{4} S$ on N.half,

R 24 E S 12 S 13 CC on W.half,

R 25 E S 7 in NE.and S 18 in SE.quadrant, dig pits, 24x18x12
ins., crosswise on each line, N.and S., 3 ft.dist., and
E.of post, 7 ft.dist., and raise a mound of earth, 4 ft.
base, 2 ft.high, E.of cor.I destroy all marks on the cor.of secs.7-12-13 and 18,
that pertain to R.25 E.

Land, rolling.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

soil, sandy loam, from 20 to 30 ins. deep, 1st rate.
subsoil, gravel.

No timber.

Land covered with dense undergrowth on 78.98 chs.

N.0°13'E., bet. secs. 7 and 8.

Gradual ascent over rolling land, through dense undergrowth.

16.00 Enter scattering timber.

34.00 Leave timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 7 on W. half S 8 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

49.60 Telephone line bet. Dolores, Colorado and Monticello, Utah, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked on brass cap, T 34 S 8 6 in NW., R 25 E 8 5 in NE., S 8 in SE. and S 7 in SW. quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, sandy loam, from 20 to 30 ins. deep, 1st rate.

subsoil, gravel.

Timber, scattering cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

August 31, 1911

Chen B Andrews
U.S. Transitman

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

August 31: For solar and latitude observations for this day see pages 35 and 37.

N. $89^{\circ}56' E.$, on a random line, bet. secs. 5 and 8.

40.00 Set temp. $\frac{1}{2}$ sec.cor.

79.94 Intersect N. and S. line, 14 lks. N. of the cor. of secs. 4-5-8 and 9.

Thence I run

N. $89^{\circ}58' W.$, on a true line,

Bet. secs. 5 and 8.

Gradual ascent over rolling land, through dense undergrowth.

59.97 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked on brass cap, $\frac{1}{2}$ S 5 on N. half, S 8 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

76.10 Road, bears NW. and SE.

79.94 The cor. of secs. 5-6-7 and 8.

Land, rolling.

Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate.

Subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 79.94 chs.

Knowing from the retracement of the W.bdy. of the Tp., that the line bet. secs. 6 and 7 will not close within limits on the W.bdy. of the Tp., I run

N. $89^{\circ}49' W.$, on a true line,

Bet. secs. 6 and 7.

Gradual ascent over rolling land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor., marked on brass cap, $\frac{1}{2}$ S 6 on N. half, S 7 on S. half, dig pits, 18x18x12 ins., E. and W. of

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

56.05

wash, 25 lks. wide, 7 ft. deep, course SW.

79.15

Intersect W.bdy.of Tp., South, 115 lks. from the cor.of secs. 1-6-7 and 12, heretofore described.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor.of secs. 6 and 7, marked on brass cap, T 34 S on N.half,

R 24 E S 1 S 12 CC on W.half,

R 25 E S 6 in NE. and S 7 in SE. quadrant, dig pits, 24x18x12 ins., crosswise on each line, N. and S. 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

I destroy all marks on the cor.of secs. 1-6-7 and 12, that pertain to R.25 E.

Land, rolling.

Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate.

subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 79.15 chs.

N.0°13'E., on a random line, bet.secs. 5 and 6.

40.00

Set temp. $\frac{1}{4}$ sec.cor.

81.21

Intersect N.bdy.of Tp., 40 lks. E. of the cor.of secs.

5-6-31 and 32, which is a cedar post, 4 ins. diam., projecting 15 ins. above the ground, marked and witnessed as described by the surveyor general.

Thence I run

S.0°04'E., on a true line,

Bet.secs. 5 and 6.

Gradual descent over rolling land, through dense undergrowth.

41.21

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 6 on W.

SUBDIVISIONS OF T.34 S., R.25 E.

CHAINS

half, S 5 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

78.90 Road, bears NW. and SE.

81.21 The cor. of secs. 5-6-7 and 8.

Land, rolling.

Soil, sandy loam, from 20 to 30 ins. deep, 1st. rate.
subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 81.21 chs.

August 31, 1911

Melvin H. West
U.S. Surveyor

G E N E R A L D E S C R I P T I O N .

This township is rolling throughout, with the exception of Pearson Canyon, which heads in this township and is a rocky canyon, cutting through the solid sandstone and is from 75 to 200 ft. deep.

The soil along the canyon is rocky and solid sandstone and is generally covered with a heavy growth of cedar and pinon timber.

The northern portion of the township has a soil which is a sandy loam, from 20 to 30 ins. in depth and is covered with a dense growth of sage brush and native grasses; the subsoil is generally gravel, and this portion is suitable for dry farming.

The balance of the township is a sandy loam of less depth, from 6 to 20 ins. deep, with gravel or sandstone subsoil and is also covered with a dense growth of sage brush, native grasses or scattering cedar and pinon timber, and is suitable for grazing only.

There is no water in this township.

The telephone line between Monticello, Utah and Dolores,

GENERAL DESCRIPTION OF T.34 S., R.25 E.

COLORADO, crosses this township.

There are no roads of importance in this township, the roads being used by local cattlemen and are not permanent.

There are no settlers in this township.

A log cabin, near the middle of sec. 28, (its location could not be determined from any point on any line,) known as Miller's cabin; and Byer's cabin in the SW. $\frac{1}{4}$ of Sec. 35, are used by cattlemen of Monticello, as headquarters.

The wire fence running through secs. 28-27-34 and 35, encloses a large pasture, for these same cattlemen.

There are no indications of coal, oil or mineral found in this township.

Melvin A. Heist
Elias B. Anderson

U.S. Transitmen

BOOK A-393

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of

For certificates or assistants see book "Z" T. 32 S., R. 26 E.

f the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the day of 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final oath of transition see book "Z" T. 32 S., R. 26 E.

..... of the Meridian, in the State of which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said and sworn to before me }
this day of 191 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19 , 1914.

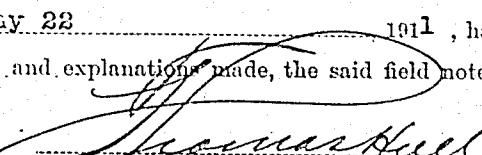
The foregoing field notes of the survey of the subdivisional lines of Township No. 34 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah,

executed by Melvin D. Heist and Ellen B. Andrews

under his special instructions dated May 23

1911 , having been

critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.


U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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BOOK A-393

FIELD NOTES

OF THE SURVEY OF THE

S.U.B.D.I.V.I.S.I.O.N.S.

OF

T. 34 S., R. 26 E.

Of the Salt Lake Base and Meridian,

In the State of Utah.

EXECUTED BY

Melvin D. Heist and Eben R. Andrews.

In the capacity of U. S. Surveyors, under instructions dated May 22, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 12, which were approved by the Commissioner of the General Land
Office, June 17, 1911, pursuant to authority contained in the Act of
Congress dated 1911.

Survey commenced September 5, 1911

Survey completed September 21, 1911

44-73-647

BOOK A-393

INDEX DIAGRAM.

Township 34 South, Range 26 East,

6	10	5	20	4	29	3	41	2	1
9		19		29		40	40		
7	8	8	18	9	28	10	39	11	12
7		18		27		38		38	
18	6	17	17	16	26	15	37	14	13
5		16		26		36		36	
19	4	20	15	21	25	22	35	23	24
4		14		24		34		34	
30	3	29	13	28	23	27	33	26	25
2		12		23		32		32	
31	1	32	10	33	22	34	31	35	36

Subdivision of T.34 S., R.26 E.

CHAINS

Survey commenced, September 5, 1911, and executed with the instrument described in book "A" of this survey.

I know the instrument to be in adjustment from recent observations made at the re-established cor. of secs.

34-35 T.34 S., R.25 E. and secs. 2-3, T.35 S., R.25 E. on August 23 and 24, 1911, and recorded in book "P" of this survey.

September 5: At 7h.59m., a.m., l.m.t., I set off $37^{\circ}49'N.$ on the lat. arc, $7^{\circ}06'N.$ on the decl. arc, and at the re-established cor. of secs. 5-6-31 and ^{on S.bdy. of Tp.} ~~32~~ heretofore described, determine a meridian with the solar.

Thence I run

N. $0^{\circ}17'E.$, bet. secs. 31 and 32.

Over rolling land, through heavy timber.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 31 in W. half, and S 32 in E. half; from which

A cedar 9ins. dia., bears, $S.58^{\circ}11'E.$, 7 lks. dist., marked $\frac{1}{4}$ S 32 BT.

A cedar 10ins. dia., bears, $S.39^{\circ}31'W.$, 16 lks. dist., marked $\frac{1}{4}$ S 31 BT.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 29-30-31 and 32, marked on brass cap, T 34 S S 30 in NW.

R 26 E S 29 in NE.

S 32 in SE. and

S 31 in SW. quadrant; from which

A cedar 17ins. dia., bears, N. $54^{\circ}26'E.$, 170 lks. dist., marked T 34 S R 26 E S 29 BT.

A cedar 15ins. dia., bears, S. $20^{\circ}59'E.$, 152 lks. dist., marked T 34 S R 26 E S 32 BT.

A cedar 7ins. dia., bears, S. $41^{\circ}00'W.$, 105 lks. dist., marked T 34 S R 26 E S 31 BT.

A cedar 6ins. dia., bears, N. $58^{\circ}55'W.$, 90 lks. dist., marked T 34 S R 26 E S 30 BT.

Subdivision of T.34 S., R.26 E.

CHAINS	Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Heavily timbered land on 80.00chs.
	West on random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect W.bdy. of Tp. at the re-established cor. of secs. 25-30-31 and 36, heretofore described. Thence I run
	East on true line bet. secs. 30 and 31. Over rolling land, through scattering timber and dense undergrowth.
39.99	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 in N. half, and S 31 in S. half; from which
	A pinon 5ins.dia., bears N.27°17'W., 122 lks. dist., marked $\frac{1}{4}$ S 30 BT.
	A cedar 10ins.dia., bears, S.19°29'W., 79 lks. dist., marked $\frac{1}{4}$ S 31 BT.
45.57	Leave dense undergrowth. Enter heavy timber, bears N. and S.
79.98	The cor. of secs. 29-30-31 and 32. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with scattering timber and dense undergrowth on 79.98chs.
	September 5: At 11h.59m., a.m., l.m.t., I set off 7°02'N. on the decl. arc, and at the cor. of secs. 29-30-31 and 32, observe the sun on the meridian, the resulting lat. is 37°49'N. Thence I run

Subdivision of T.34 S., R.26 E.

CHAINS	N.0°17'E., bet. secs. 29 and 30.
	Over rolling land, through dense undergrowth and scattering timber.
14.88	Leave scattering timber.
38.90	Enter scattering timber.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 in W. half, and S 29 in E. half; from which
	A cedar 9ins.dia., bears, S.76°29'W., 111 lks. dist., marked $\frac{1}{4}$ S 30 BT.
	No other bearing tree within limits; dig pits 18x18x12ins. N. and S. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
46.26	Leave dense undergrowth. Enter heavy timber, bears NE. and SW.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 19-20-29 and 30, marked on brass cap, T 34 S S 19 in NW. R 26 E S 20 in NE. S 29 in SE. and S 30 in SW. quadrant; from which
	A cedar 15ins.dia., bears, N.22°18'E., 206 lks.dist., marked T 34 S R 26 E S 20 BT.
	A cedar 5ins.dia., bears, S.65°52'E., 127 lks.dist., marked T 34 S R 26 E S 29 BT.
	A pinon 9ins.dia., bears, S.1°00'W., 55 lks dist., marked T 34 S R 26 E S 30 BT.
	A cedar 6ins.dia., bears, N.30°10'W., 191 lks.dist., marked T 34 S R 26 E S 19 BT.
	Land, rolling.
	Soil, sandy loam, 1st. rate.
	Subsoil, clay and gravel.
	Timber, cedar and pinon.
	Undergrowth, sagebrush.
	Heavily timbered land or land covered with dense under-

-4-

Subdivision of T. 3 $\frac{1}{4}$ S., R. 26 E.

CHAINS	growth and scattering timber on 80.00chs.
	West on random line bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect W. bdy. of Tp. 12 lks. N. of the re-established cor. of secs. 19-2 $\frac{1}{4}$ -25 and 30, heretofore described.
	Thence I run
	N. $89^{\circ}55' E.$, on true line bet. secs. 19 and 30.
	Over rolling land, through dense undergrowth.
39.96	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 in N. half, and S 30 in S. half; dig pits 18x18x12ins. E. and W. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
43.40	Leave dense undergrowth. Enter heavy timber, bears NW. and SE.
79.92	The cor. of secs. 19-20-29 and 30.
	Land, rolling.
	Soil, sandy loam and gravel, 2nd. rate.
	Subsoil, clay and gravel.
	Timber, cedar and pinon.
	Undergrowth, sagebrush.
	Heavily timbered land or land covered with dense undergrowth on 79.92chs.
	September 5, 1911.
	September 16: For solar observation see page 12 of these notes. AT 11h.55m., a.m., l.m.t., I set off $2^{\circ}52' N.$ on the decl. arc, and at the cor. of secs. 19-20-29 and 30, observe the sun on the meridian, the resulting lat. is $37^{\circ}50' N.$ Thence I run
	N. $0^{\circ}17' E.$, bet. secs. 19 and 20.
	Over rolling land, through scattering timber and dense undergrowth.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 in W. half,

Subdivision of T.34 S., R.26 E.

CHAINS

and S 20 in E. half; from which,

A pinon .7ins.dia., bears, S.66°02'E., 30 lks. dist.,
marked $\frac{1}{4}$ S 20 BT.

A pinon .6ins.dia., bears, S.29°16'W., 29 lks. dist.,
marked $\frac{1}{4}$ S 19 BT.

67.20 Leave dense undergrowth. Enter heavy timber, bears NE.
and SW.

80.00 Set an iron post 3ft.long, 2ins.dia., 24ins.. in the ground
for cor. of secs. 17-18-19 and 20, marked on brass cap,
(T 34 S S 18 in NW.
R 26 E S 17 in NE.
S 20 in SE. and
S 19 in SW. quadrant; from which

A cedar 6ins.dia., bears, N.60°33'E., 63 lks. dist.,
marked T 34 S R 26 E S 17 BT.

A pinon .7ins.dia., bears, S.49°15'E., 65 lks. dist.,
marked T 34 S R 26 E S 20 BT.

A pinon 8ins.dia., bears, S.85°30'W., 14 lks. dist.,
marked T 34 S R 26 E S 19 BT.

A pinon 9ins.dia., bears, N.50°42'W., 28 lks. dist.,
marked T 34 S R 26 E S 18 BT.

Land, rolling.

Soil, sandy loam and gravel, 2nd. rate.

Subsoil, clay and gravel.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-
growth and scattering timber on 80.00chs.

S.89°55'W., on random line bet. secs. 18 and 19.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect W. bdy. of Tp. 2 lks. S. of the re-established
cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

N.89°56'E., on true line bet. secs. 18 and 19.

Subdivision of T.3⁴ S., R.26 E.

- | CHAINS | |
|--------|---|
| | Over rolling land, through heavy timber. |
| 36.26 | Leave heavy timber, bears NW. and SE. Enter dense under-growth. |
| 39.98 | Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18 in N. half, and S 19 in S. half; dig pits 18x18x12ins. E. and W. of post, 3ft. dist.; and raise a mound of earth $\frac{3}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. |
| 44.06 | Leave dense undergrowth. Enter heavy timber, bears NW. and SE. |
| 79.96 | The cor. of secs. 17-18-19 and 20
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, clay and gravel.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Heavily timbered land or land covered with dense under-growth on 79.96chs. |

September 16, 1911.

September 18: At 7h.55m., a.m., l.m.t., I set off $37^{\circ}51'N.$ on the lat. arc, $2^{\circ}11'W.$ on the decl. arc, and at the cor. of secs. 17-18-19 and 20, determine a meridian with the solar. Thence I run

N. $0^{\circ}17'E.$, bet. secs. 17 and 18.

Over rolling land, through heavy timber.

- | | |
|-------|---|
| 2.77 | A pinon tree 22ins.dia. on line, marked 2 notches on N. and S, |
| 31.30 | Leave heavy timber, bears NE. and SW. Enter scattering timber and dense undergrowth. |
| 40.00 | Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18 in W. half, and S 17 in E. half; from which

A pinon 6ins.dia., bears, S. $79^{\circ}13'E.$, 36 lks. dist., marked $\frac{1}{4}$ S 17 BT.

A pinon 8ins.dia., bears, S. $62^{\circ}23'W.$, 36 lks. dist., |

Subdivision of T. 3⁴S., R. 26 E.

CHAINS	
	marked $\frac{1}{4}$ S 18 BT.
42.00	Leave scattering timber.
65.75	Trail, bears NW. and SE.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 7-8-17 and 18, marked on brass cap, T 3 ⁴ S 8 7 in NW. R 26 E S 8 in NE. S 17 in SE. and S 18 in SW. quadrant; dig pits 18x18x12ins. in each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor. Land. rolling. Soil, sandy loam, 1st. rate. Subsoil, clay and gravel. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense under- growth on 80.00chs.
	S 89°56' W., on random line bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect W. bdy. of Tp. 9 1ks. S. of the re-established cor. of secs. 7-12-13 and 18, heretofore described. Thence I run East on true line bet. secs. 7 and 18. Over rolling land, through heavy timber.
7.75	Leave heavy timber, bears NE. and SW. Enter dense under- growth.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 7 in N. half, and S 18 in S. half; dig pits 18x18x12ins. E. and W. of post 3ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
80.00	The cor. of secs. 7-8-17 and 18. Land, rolling.

Subdivision of T.3⁴ S., R.26 E.

CHAINS	Soil, sandy loam and gravel, 2nd. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense undergrowth On 80.00chs.
	September 18, 1911.
	September 19: At 7h.54m., a.m., l.m.t., I set off 37°52'N. on the lat. arc, 1°47'N, on the decl. arc, and at the cor. of secs. 7-8-17 and 18, determine a meridian with the solar. Thence I run N.0°17'E., bet. secs. 7 and 8. over rolling land, through dense undergrowth.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec, cor., marked on brass cap, $\frac{1}{4}$ S 7 in W. half, ans S 8 in E. half; dig pits 18x18x12ins. N. and S. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
46.60	Telephone line, Dolores, Colorado to Monticello, Utah, bears E. and W.
80.00	Set an iron post 3ft. long, 2ins. dia., 2 $\frac{1}{4}$ ins. in the ground for cor. of secs. 5-6-7 and 8, marked on brass cap, T 34 S S 6 in NW. R 26 E S 5 in NE. S 8 in SE. and S 7 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist; and raise a mound of earth 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam and clay, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.

Subdivision of T.34 S., R.26 E.

CHAINS	West on random line bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect W. bdy. of Tp. 7 lks. N. of the re-established cor of secs. 1-6-7 and 12, heretofore described. Thence I run N. $89^{\circ}57' E.$, on true line bet. secs. 6 and 7, Over rolling land, through heavy timber.
22.90	Leave heavy timber, bears N. and S. Enter dense undergrowth.
39.98	Set an iron post 3ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap; $\frac{1}{4}$ S 6 in N. half, and S 7 in S. half; dig pits 18x18x12ins. E. and W. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
48.52	Leave dense undergrowth. Enter heavy timber, bears NW. and SE.
53.90	Leave heavy timber, bears N. and S. Enter dense undergrowth.
79.96	The cor. of secs. 5-6-7 and 8. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense undergrowth on 79.96chns.

September 19, 1911.

September 21:	At 7h.53m., a.m., l.m.t., I set off $37^{\circ}53' N.$ on the lat. arc, $1^{\circ}01' N.$ on the decl. arc, and at the cor. of secs. 5-6-7 and 8, determine a meridian with the solar.
Thence I run	N. $0^{\circ}17' E.$, on random line bet. secs. 5 and 6.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.27	Intersect N. bdy. of Tp. at the re-established cor. of secs. 5-6 31 and 32, heretofore described.

Subdivision of T.34 S., R.26 E.

CHAINS

- Thence I run
S.0°17'W., on true line bet. secs. 5 and 6.
over rolling land, through heavy timber, and sagebrush.
- 11.40 Enter scattering timber.
- 14.75 A cedar tree 24ins.dia. on line, marked with 2 notches
on N. and S.
- 29.80 Leave scattering timber.
- 41.27 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ 'S 6 in W. half,
and S 5 in E. half; dig pits 18x18x12ins. N. and S. of
post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high W. of cor.
- 47.15 Enter scattering timber.
- 63.77 Leave scattering timber,
- 81.27 The cor. of secs. 5-6-7 and 8.
Land.rolling.
Soil, sandstone.
Subsoil, clay and gravel.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Land covered with dense undergrowth or scattering timber
on 81.27chs.

September 21, 1911.

September 15: I know the instrument to be in adjustment
from recent observations made at the re-established
standard cor. of secs. 31 and 32, T.35 S., R.26 E., on
September 7 and 8, 1911, and recorded in book "N" of this
survey.

At 2h.56m., p.m., l.m.t., I set off $37^{\circ}49'N.$ on the
lat. arc, $3^{\circ}12'N.$ on the decl. arc, and at the re-established
cor. of secs. 4-5-32 and 33, on Sbdy. of Tp. here-
before described, determined a meridian with the solar.
Thence I run
N.0°17'E., bet. secs. 32 and 33.
Over rolling land, through dense undergrowth and scatter-

Subdivision of T.34 S., R.26 E.

CHAINS

ing timber.

31.20 Hollow, 50ft. deep, drains E.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 in W. half, and S 33 in E. half; from which

A cedar 11ins. dia., bears, N.7°29'E., 40 lks. dist., marked $\frac{1}{4}$ S 33 BT.

A pinon 8ins. dia., bears, N.35°48'W., 55 lks. dist., marked $\frac{1}{4}$ S 32 BT.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 28-29-32 and 33, marked on brass cap,

✓T 34 S S 29 in NW.

✓R 26 E S 28 in NE.

✓S 33 in SE. and

✓S 32 in SW. quadrant; from which

A cedar 7ins. dia., bears, N.75°00'E., 76 lks. dist., marked T 34 S R 26 E S 28 BT.

A cedar 11ins. dia., bears, S.64°52'W., 58 lks. dist., marked T 34 S R 26 E S 33 BT.

A cedar 6ins. dia., bears, S.23°12'W., 29 lks. dist., marked T 34 S R 26 E S 32 BT.

A cedar 10ins. dia., bears, N.9°15'W., 67 lks. dist., marked T 34 S R 26 E S 29 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth and scattering timber on 80.00chs.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with

Subdivision of T.34 S., R.26 E.

CHAINS

a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of secs. 28-29-32 and 33, in approximate lat. $37^{\circ}49'N.$, long. $109^{\circ}08'20''W.$, I set off $37^{\circ}49'N.$ on the lat. arc, $3^{\circ}12'N.$ on the decl. arc, and at 3h.56m., p.m., l.m.t., determine a meridian with the solar and mark a point thereof, on a stone firmly set in the ground, 5chs. N. of the cor.

At 7h.57m., p.m., l.m.t.; I observe Polaris at eastern elongation, in accordance with instructions in the Manual and mark a point in the line thus determined, on a peg driven in the ground 5chs, N. of my station.

September 15, 1911.

September 16: At 7 a.m., l.m.t. I lay off the azimuth of Polaris, $1^{\circ}29'$ to the west; and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3ins. west of the mark determined by the solar.

At 7h.55m., a.m., l.m.t., I set off $37^{\circ}49'N.$ on the lat. arc, $2^{\circ}57'N.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.3ins. east of the meridian established by the Polaris observation. The solar apparatus, by a.m. and p.m. observations, defines a position for the meridian about $0'16''$ east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m., is $N.15^{\circ}35'W.$, the angle thus determined gives the mag. decl., $15^{\circ}35'E.$

Thence I run

West on random line bet. secs. 29 and 32.

40.00 Set temp: $\frac{1}{4}$ sec. cor.

Subdivision of T.34 S., R.26 E.

CHAINS	
80.00	Intersect N. and S. line 7 lks. N. of the cor. of secs. 29-30-31 and 32. Thence I run N.89°57'E., on true line bet. secs. 29 and 32. Over rolling land, through dense undergrowth and scattering timber.
11.80	Leave scattering timber, bears N. and S.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 29 in N. half, and S 32 in S. half; dig pits 18x18x12ins. E. and W. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
56.80	Enter scattering timber, bears N. and S.
80.00	The cor. of secs 28-29-32 and 33. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, sandstone and clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.00chs.
	N.0°17'E., bet. secs. 28 and 29. Over rolling land, through dense undergrowth and scattering timber.
14.45	Hollow, 70ft. deep, drains SE.
16.78	Leave scattering timber, bears NE. and SW.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 29 in W. half, and S 28 in E. half; dig pits 18x18x12ins. N. and S. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
77.50	Enter scattering timber, bears NW. and SE.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 20-21- 28 and 29, marked on brass cap,

Subdivision of T.34 S., R.26 E.

CHAINS	<p>✓ T 34 S S 20 in NW. R 26 E S 21 in NE. S 28 in SE. and S 29 in SW. quadrant; from which A pinon 7ins.dia., bears, N.71°20'E., 45 lks. dist., marked T 34 S R 26 E S 21 BT. A pinon 6ins.dia., bears, S.45°57'E., 16 lks dist., marked T 34 S R 26 E S 28 BT. A cedar 5ins.dia., bears, S.53°00'W., 17 lks. dist., marked T 34 S R 26 E S 29 BT. A cedar 5ins.dia., bears, N.47°31'W., 69 lks. dist., marked T 34 S R 26 E S 20 BT. Land, rolling. Soil, sandy loam and gravel, 2nd. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.00chs.</p>
40.00	S.89°57'W., on random line bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line 9 lks. S. of the cor. of secs. 19-20-29 and 30. Thence I run
	S.89°59'E., on true line bet. secs. 20 and 29. Over rolling land, through dense undergrowth and scattering timber.
40.01	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec, cor., marked on brass cap, $\frac{1}{4}$ S 20 in N. half, and S 29 in S. half; dig pits 18x18x12ins. E. and W. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
80.02	The cor. of secs. 20-21-28 and 29. Land, rolling.

Subdivision of T.34 S., R.26 E.

CHAINS

Soil, sandy loam, 2nd. rate.
Subsoil, clay.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Land covered with dense undergrowth and scattering timber
on 80.02chs.

September 16, 1911.

September 18: For solar observation see page 6 of these notes. From the cor. of secs 20-21-28 and 29, I run N. $0^{\circ}17'$ E., bet. secs. 20 and 21.

Over rolling land, through dense undergrowth and scattering timber.

- 8.46 Leave scattering timber.
- 40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 20 in W. half, and S 21 in E. half; dig pits 18x18x12ins. N. and S. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 61.90 Leave dense undergrowth. Enter heavy timber, bears NW. and SE.
- 80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 16-17-20 and 21, marked on brass cap,
T 34 S S 17 in NW.
R 26 E S 16 in NE.
S 21 in SE. and
S 20 in SW. quadrant; from which
A cedar 8ins. dia., bears, N. $43^{\circ}40'$ E., 79 lks. dist.,
marked T 34 S R 26 E S 16 BT.
A pinon 14ins. dia., bears, S. $50^{\circ}32'$ E., 34 lks. dist.,
marked T 34 S R 26 E S 21 BT.
A pinon 15ins. dia., bears, S. $66^{\circ}35'$ W., 32 lks. dist.,
marked T 34 S R 26 E S 20 BT.
A pinon 8ins. dia., bears, N. $66^{\circ}30'$ W., 14 lks. dist.,
marked T 34 S R 26 E S 17 BT.
Land, rolling.

Subdivision of T. 3⁴ S., R. 26 E.

CHAINS

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense undergrowth or scattering timber on 80.00chs.

September 18: At 11h.54m., a.m., l.m.t., I set off 2°06' N. on the decl. arc, and at the cor. of secs. 16-17-20 and 21, observe the sun on the meridiam, the resulting lat. is 37°51' N. Thence I run

N. 89°59' W., on random line bet. secs. 17 and 20.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line 5 lks. S. of the cor. of secs. 17-18-19 and 20.

Thence I run

S. 89°57' E., on true line bet. secs. 17 and 20.

Over rolling land, through heavy timber.

3.20 Leave heavy timber, bears NE. and SW. Enter dense undergrowth and scattering timber.

38.25 Trail, bears NW. and SE.

39.98 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 17 in N. half, and S 20 in S. half; from which

A cedar 5ins. dia., bears, N. 56°31' E., 63 lks. dist., marked $\frac{1}{4}$ S 17 BT.

A pinon 7ins. dia., bears, S. 47°12' E., 15 $\frac{1}{4}$ lks. dist., marked $\frac{1}{4}$ S 20 BT.

51.90 Leave dense undergrowth. Enter heavy timber, bears NW. and SE.

79.96 The cor. of secs. 16-17-20 and 21.

Land, rolling.

Soil, sandy loam and gravel, 2nd. rate.

Subsoil, clay.

Timber, cedar and pinon.

Heavily timbered land or land covered with dense under-

Subdivision of T.3⁴ S., R.26 E.

CHAINS

growth and scattering timber on 79.96chs.

N.0°17'E., bet. secs. 16 and 17.

Over rolling land, through heavy timber.

11.80 Leave heavy timber, bears NW. and SE. Enter dense under-growth and scattering timber.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 17 in W. half, and S 16 in E. half; dig pits 18x18x12ins. N. and S. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 8-9-16 and 17, marked on brass cap, T 3⁴ S S 8 in NW.
R 26 E S 9 in NE.
S 16 in SE. and
S 17 in SW. quadrant; from which

A cedar 6ins. dia., bears, N.61°20'E., 159 lks. dist., marked T 3⁴ S R 26 E S 9 BT.

A cedar 5ins. dia., bears, S.73°16'E., 175 lks. dist., marked T 3⁴ S R 26 E S 16 BT.

A cedar 16ins. dia., bears, S.46°15'W., 74 lks. dist., marked T 3⁴ S R 26 E S 17 BT.

A cedar 8ins. dia., bears, N.59°00'W., 21 lks. dist., marked T 3⁴ S R 26 E S 8 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-growth and scattering timber on 80.00chs.

N.89°57'W., on random line bet. secs. 8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of T. 34 S., R. 26 E.

CHAINS
80.00 Intersect N. and S. line at the cor. of secs. 7-8-17 and
18.
Thence I run
S.89°57'E., on true line bet. secs. 8 and 17.
Over rolling land, through dense undergrowth.
10.25 Leave dense undergrowth. Enter heavy timber, bears N. and S.
37.22 A pinon tree 24ins. dia. on line, marked 2 notches on E.
and W.
40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 8 in N. half,
and S 17 in S. half; from which
A cedar 8ins.dia., bears, N.80°00'E., 48 lks. dist.,
marked $\frac{1}{4}$ S 8 BT.
A pinon 22ins.dia., bears, S.3°45'E., 39 lks. dist.,
marked $\frac{1}{4}$ S 17 BT.
80.00 The cor. of secs. 8-9-16 and 17.
Land, rolling.
Soil, sandy loam and gravel, 2nd. rate.
Subsoil, clay.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Heavily timbered land or land covered with dense under-
growth on 80.00chs.

September 18, 1911.

September 19: For solar observation see page 8 of these notes. At 11h.54m., a.m., l.m.t., I set off 1°43'N. on the decl. arc. and at the cor. of secs. 8-9-16 and 17, observe the sun on the meridian, the resulting lat. is 37°52'N. Thence I run

N.0°17'E., bet. secs. 8 and 9.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 8 in W. half,
and S 9 in E. half; dig pits 18x18x12ins. N. and S. of

Subdivision of T.34 S., R.26 E.

CHAINS	
	post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
71.00	Telephone line, Dolores, Colorado to Monticello, Utah, bears N. $47^{\circ}00' E$.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 4-5-8 and 9, marked on brass cap, T 34 S 5 in NW. R 26 E S 4 in NE. S 9 in SE. and S 8 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam and gravel, 2nd. rate. Subsoil, clay and gravel. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
	N. $89^{\circ}57' W$., on random line bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line 7 lks. N. of the cor. of secs. 5-6-7 and 8. Thence I run East on true line bet. secs. 5 and 8. Over rolling land, through dense undergrowth.
22.00	Leave dense undergrowth, Enter heavy timber, bears N. and S.
40.01	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor, marked on brass cap, $\frac{1}{4}$ S 5 in N. half, and S 8 in S. half; from which A cedar 15ins.dia., bears, N. $45^{\circ}35' W$., 43 lks. dist., marked $\frac{1}{4}$ S 5 BT. A pinon 9ins.dia., bears, S. $5^{\circ}30' E$., 7 lks. dist., marked $\frac{1}{4}$ S 8 BT.
45.80	Leave heavy timber, bears NE. and SW. Enter dense under-

Subdivision of T. 3⁴ S., R. 26 E.

CHAINS	growth.
80.02	The cor. of secs. 4-5-8 and 9. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense under-growth on 80.02chs.
	September 19, 1911.
	September 21: For solar observation see page 9 of these notes. At 11h.53m., a.m., l.m.t., I set off $0^{\circ}56'N.$ on the decl. arc, and at the cor. of secs. 4-5-8 and 9, observe the sun on the meridian, the resulting lat. is $37^{\circ}53' N.$ Thence I run $N.0^{\circ}17'E.$, on random line bet. secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.35	Intersect N. bdy. of Tp. 16 lks. E. of the re-established cor. of secs. 4-5-32 and 33, heretofore described. Thence I run $S.0^{\circ}10'W.$, on true line bet. secs. 4 and 5. over rolling land, through scattering timber and dense undergrowth.
37.00	Leave dense undergrowth. Enter heavy timber, bears NE. and SW.
41.35	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec, cor., marked on brass cap, $\frac{1}{4}$ S 5 in W. half, and S 4 in E. half; from which A pinon 6ins. dia., bears, $N.32^{\circ}52'E.$, 35 lks. dist., marked $\frac{1}{4}$ S 4 BT. A pinon 6ins. dia., bears, $S.48^{\circ}00'W.$, 61 lks. dist., marked $\frac{1}{4}$ S 5 BT.
49.00	Leave heavy timber, bears NE. and SW. Enter dense under-growth.
81.35	The cor. of secs. 4-5-8 and 9.

Subdivision of T.34 S., R.26 E.

CHAINS

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and piñon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-growth or scattering timber on 81.35chs.

September 21, 1911.

Melvin J. Heist
U.S. Transitman.

Survey commenced September 15, 1911, and executed with the instrument described in book "D" of this survey.

I begin at the re-established cor. of secs. 3-4-33 and 34, on S.bdy. of Tp. heretofore described, in approximate lat. $37^{\circ}49'N.$, long. $109^{\circ}07'14''W.$

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At 3h.56m., p.m., l.m.t., I set off $37^{\circ}49'N.$ on the lat. arc, $3^{\circ}12'N.$ on the decl. arc, and determine with the solar a meridian and mark the point thereof, on a stone firmly set in the ground 5chs. N. of the cor.

At 7h.57th, p.m., l.m.t., I observe Polaris at eastern elongation. in accordance with instructions in the Manual and mark a point in the line thus determined on a peg driven in the ground 5chs. N. of the cor.

September 15, 1911.

September 16: At 7 a.m., I lay off the azimuth of Polaris, $1^{\circ}29'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.3ins. west of the mark

Subdivision of T.34 S., R.26 E.

CHAINS

determined with the solar.

At 7h.55m., a.m., l.m.t., I set off $37^{\circ}49'N.$ on the lat. arc, $2^{\circ}57'N.$ on the decl. arc, and mark the meridian thus determined, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.4ins. west of the meridian established by the Polaris observation.

The solar apparatus, by a.m. and p.m. observations, defines positions of the meridian, about $0'16''$ east and $0'21''$ west, respectively, of the meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h, a.m., is N. $15^{\circ}35'W.$, the angle thus determined gives the mag. decl. $15^{\circ}35'E.$

From the re-established cor. of secs. 3 $\frac{1}{4}$ -33 and 3 $\frac{1}{4}$, on S. bdy. of Tp.

heretofore described, I run

N. $0^{\circ}18'E.$, bet. secs. 33 and 34.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 in W. half, and S 3 $\frac{1}{4}$ in E. half; dig pits 18x18x12ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

58.89 Wire fence; bears E. and W.-

80.00 Set an iron post, 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 27-28-33 and 34, marked on brass cap, T 3 $\frac{1}{4}$ S S 28 in NW.

R 26 E S 27 in NE.

S 34 in SE. and

S 33 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Subdivision of T.34 S., R.26 E.

CHAINS

- No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 80.00chs.

	West on radom line bet. secs 28 and 33.
80.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 5 lks. S. of the cor. of secs. 28-29-32 and 33.
	Thence I run
	S.89°58'E., on true line bet. secs. 28 and 33.
	Over rolling land, through dense undergrowth and scattering timber.
20.50	Ravine, 70ft. deep, drains SE.
36.00	Leave scattering timber.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 in N. half, and S 33 in S. half; raise a mound of stone 2ft. base, 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
41.80	Ravine, 65ft. deep, drains S.
80.00	The cor. of secs. 27-28-33 and 34.
	Land, rolling.
	Soil, sandy loam and loose rock, 3d. rate.
	Subsoil, sandstone.
	Timber, cedar and pinon.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth or scattering timber on 80.00chs.

September 16, 1911.

September 18: At 7h.54m., a.m., l.m.t., I set off 37°49'N. on the lat. arc, 2°11'N. on the decl. arc, and at the cor. of secs. 27-28-33 and 34, determine a meridian with the solar. Thence I run

N.0°18'E., bet. secs. 27 and 28.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground

Subdivision of T.34 S., R.26 E.

CHAINS

for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 in W. half, and S 27 in E. half; dig pits 18x18x12ins. N. and S. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

20.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 21-22-27 and 28, marked on brass cap,

T 34 S S 21 in NW.

R 26 E S 22 in NE.

S 27 in SE. and

S 28 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone and clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

N. $89^{\circ}58'W.$, on random line bet. secs 21 and 28.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.98 Intersect N. and S. line 5 lks. N. of the cor. of secs. 20-21-28 and 29.

Thence I run

East on true line bet. secs. 21 and 28.

Over rolling land, through scattering timber and dense undergrowth.

4.00 Leave scattering timber.

39.99 Set an iron post 3ft.long, 1 in.dia.; 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 21 in N. half, and S 28 in S. half; dig pits 18x18x12ins. E. and W. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

79.98 The cor. of secs. 21-22-27 and 28.

Land, rolling.

Subdivision of T. 34 S., R. 26 E.

CHAINS

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber
on 79.98chs.

N. $0^{\circ}18' E.$, bet. secs. 21 and 22.

Over rolling land, through dense undergrowth.

20.00 Enter scattering timber.

34.80 Leave scattering timber.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec, cor., marked on brass cap, $\frac{1}{4}$ S 21 in W. half,
and S 22 in E. half; dig pits 18x18x12ins. N. and S. of
post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high W. of cor.

52.20 Leave dense undergrowth. Enter heavy timber, bears E. and
W.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground
for cor. of secs. 15-16-21 and 22, marked on brass cap,
T 34 S S 16 in NW.

R 26 E S 15 in NE.

S 22 in SE. and

S 21 in SW. quadrant; from which

A pinon 8ins. dia., bears, N. $42^{\circ}31'E.$, 108 lks. dist.,
marked T 34 S R 26 E S 15 BT.

A cedar 7ins. dia., bears S. $38^{\circ}31'E.$, 88 lks. dist.,
marked T 34 S R 26 E S 22 BT.

A pinon 16ins. dia., bears, S. $37^{\circ}50'W.$, 107 lks. dist.,
marked T 34 S R 26 E S 21 BT.

A pinon 17ins. dia., bears, N. $69^{\circ}32'W.$, 110 lks. dist.,
marked T 34 S R 26 E S 16 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Subdivision of T. 3⁴ S., R. 26 E.

CHAINS	Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense undergrowth or scattering timber on 80.00chs.
	September 18: At 11h.54m., a.m., l.m.t., I set off 2°06'N. on the decl. arc, and at the cor. of secs. 15-16-21 and 22, observe the sun on the meridian, the resulting lat. is 37°51'N. Thence I run West on random line bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line 5 lks. N. of the cor. of secs. 16-17-20 and 21. Thence I run N.89°58'E., on true line bet. secs. 16 and 21. Over rolling land, through heavy timber.
39.98	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 in. N. half, and S 21 in S. half; from which A cedar 7ins. dia., bears, N.65°25'W., 25 lks. dist., marked $\frac{1}{4}$ S 16 BT. A cedar 7ins. dia., bears, S.12°30'E., 39 lks. dist., marked $\frac{1}{4}$ S 21 BT.
79.96	The cor. of secs. 15-16-21 and 22. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Heavily timbered land on 79.96chs.
	N.0°18'E., bet. secs. 15 and 16. Over rolling land, through heavy timber.
24.00	Leave heavy timber, bears, E. and W.. Enter scattering timber and dense undergrowth.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 in W. half,

Subdivision of T. 34 S., R. 26 E.

CHAINS

and S 15 in E. half; from which

A pinon 13ins. dia., bears, N. $10^{\circ}35' E.$, 87 lks. dist., marked $\frac{1}{4}$ S 15 BT.

A pinon 12ins. dia., bears, N. $18^{\circ}55' W.$, 87 lks. dist., marked $\frac{1}{4}$ S 16 BT.

55.00 Leave scattering timber.

80.00 Set an iron post 3ft. long, 2ins. dia., $2\frac{1}{4}$ ins. in the ground for cor. of secs. 9-10-15 and 16, marked on brass cap,
T 34 S S 9 in NW.

R 26 E S 10 in NE.

S 15 in SE. and

S 16 in SW. quadrant; dig pits 18x18x12ins. in each sec.

$5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam; 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Heavily timbered land or land covered with scattering timber or dense undergrowth on 80.00chs.

40.00 Set S. $89^{\circ}58' W.$, on random line bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line 7 lks. N. of the cor. of secs. 8-9-16 and 17.

Thence I run

N. $89^{\circ}55' E.$, on true line bet. secs. 9 and 16.

Over rolling land, through dense undergrowth and scattering timber.

26.00 Leave dense undergrowth. Enter heavy timber, bears N. and S.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9 in N. half, and S 16 in S. half; from which

A pinon 9ins. dia., bears, N. $58^{\circ}20' W.$, 19 lks. dist.,

Subdivision of T. 34 S., R. 26 E.

CHAINS

marked $\frac{1}{4}$ S 9 BT.

A cedar 15ins. dia., bears S.73°35'E., 52 lks. dist.,

marked $\frac{1}{4}$ S 16 BT.

45.50 Leave heavy timber, bears N. and S. Enter dense under-growth.

80.00 The cor. of secs. 9-10-15 and 16.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-growth on 80.00chs.

September 18, 1911.

September 21: At 7h.53m., a.m., l.m.t., I set off 37°52'N. on the lat. arc, 1°01'N. on the decl. arc, and at the cor. of secs. 9-10-15 and 16, determine a meridian with the solar. Thence I run

N.0°18'E., bet. secs. 9 and 10.

over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec, cor., marked on brass cap, $\frac{1}{4}$ S 9 in W. half, and S.10 in E. half; dig pits 18x18x12ins. N. and S. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

47.30 Hollow, 60ft. deep, drains SE.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 3-4-9 and 10, marked on brass cap,

T 3' S S 4 in NW.

R 26 E S 3 in NE.

S 10 in SE. and

S 9 in SW. quadrant; dig pits 18x18x12ins. in each sec.

$5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

Subdivision of T.34 S., R.26 E.

CHAINS

Land, rolling.
Soil, sandy loam. 1st. rate.
Subsoil, clay.
No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 80.00chs.

- S. $89^{\circ}55'$ W., on random line bet. secs. 4 and 9.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line 7 lks. S. of the cor. of secs. 4-5-8 and 9.
Thence I run
N. $89^{\circ}58'$ E., on true line bet. secs. 4 and 9.
Over rolling land, through dense undergrowth.
9.14 Telephone line, Dolores, Colorado to Monticello, Utah,
bears N. $47^{\circ}00'$ E.
39.98 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{2}$ sec. cor, marked on brass cap, $\frac{1}{4}$ S 4 in N. half,
and S 9 in S. half; dig pits 18x18x12ins. E. and W. of
post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high N. of cor.
79.96 The cor. of secs. 3-4-9 and 10.
Land, rolling.
Soil, sandy loam and gravel, 2nd. rate.
Subsoil, clay.
No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 79.96chs.

September 21, 1911.

Eben B. Andrews
U.S. Transitman.

September 21: For solar observation see page 9 of these
notes. Thence I run
N. $0^{\circ}18'$ E., on random line bet. secs. 3 and 4.

PROJECTION OF C.U.P.S., R.26 S.

W.M. CO. 1900. 1911.

No. 12. Cor. 1000. Proj. of C.P. S. line. N. of the re-established cor. of sec. 4-1-9 and 10, heretofore described.

Interior of 10th

quarter, on true line betw. secs. 3 and 4.

over scattering land, through heavy timber.

No. 13. Above heavy timber across E. and W. Inter. fence under-
ground.

No. 14. Telephone line, Dolores, Colorado to Monticello, Utah,
bearing S. 37° 00' E.

No. 15. Water scattering timber.

No. 16. Set on iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. $\frac{1}{2}$ in. W. half,
and S. $\frac{1}{2}$ in. E. half; from which

A pinon 7ins. dia., bears. S. 37° 06' E., 69 lbs. dist.,
marked $\frac{1}{2}$ S. $\frac{1}{2}$ E.

A cedar 16ins. dia., bears. N. 49° 59' W., 20 lbs. dist.,
marked $\frac{1}{2}$ S. $\frac{1}{2}$ E.

No. 17. Large scattering timber.

No. 18. The cor. of secs. 4-1-9 and 10.
over, railing.

On 1st, only low and gravel, 2nd. rate.

Chalk, sandstone.

Timber, cedar and pinon.

Water trough, switchback.

Scattered timbered land or land covered with dense under-
growth, no 100 ft. apart.

September 21, 1911.

Melvin H. Frist²
U.S. Surveyor.

Departments particular observations page 22 of these
notes. At junction, sec. 1, m.t., I set off 2° 52' W. on
the 10th cor., and at the re-established cor. of sec.
4-1-9 and 10, I set off 2° 52' E. A topographic, determine a meridian
of the 10th cor., then I run

Subdivision of T.34 S., R.26 E.

CHAINS

- N.0°19'E., bet. secs. 34 and 35.
Ascend through heavy timber.
- 8:00 Spur, projects 4chs. E. Descend.
- 11.28 Top of sandstone ledges 30ft. high, bear NW. and SE.
Abrupt descent.
- 15.30 Bottom of descent. Abrupt ascent over sandstone ledges.
- 28.17 Top of ledges, 30ft. high, bear NE. and SW.
Descend.
- 32.85 Ravine, 65ft. deep, drains SE. Ascend.
- 40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 $\frac{1}{4}$ in W. half,
and S 35 in E. half; from which
A cedar 10ins. dia., bears N.36°10'E., 19 lks. dist.,
marked $\frac{1}{4}$ S 35 BT.
- A cedar 8ins. dia., bears S.49°50'W., 62 lks. dist.,
marked $\frac{1}{4}$ S 3 $\frac{1}{4}$ BT.
- 69.00 Leave heavy timber, bears E. and W. Enter scattering
timber and dense undergrowth.
- 80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground
for cor. of secs. 26-27-3 $\frac{1}{4}$ and 35; marked on brass cap,
T 3 $\frac{1}{4}$ S S 27 in NW.
R 26 E S 26 in NE.
S 35 in SE. and
S 3 $\frac{1}{4}$ in SW. quadrant; from which
A pinon 10ins. dia., bears S.86°30'E., 91 lks. dist.,
marked T 3 $\frac{1}{4}$ S R 26 E S 35 BT.
A pinon 1 $\frac{1}{4}$ ins. dia., bears N.24°30'W., 135 lks. dist.,
marked T 3 $\frac{1}{4}$ S R 26 E S 27 BT.
- No other trees within limits; dig pits 18x18x12ins. in
each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft.
base, 2ft. high W. of cor.
Land, mountainous and rolling.
- Soil, sandy loam, loose rock and sandstone ledges on first
60.00 chs. 4th. rate; balance sandy loam, 1st. rate.
Subsoil, sandstone.

Subdivision of T.34 S., R.26 E.

CHAINS	Timber, cedar and pinon. Undergrowth, sagebrush. Mountainous land, heavily timbered land or land covered with dense undergrowth and scattering timber on 80.00chs.
40.00	West on random line bet. secs. 27 and 34. Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 27-28-33 and 34. Thence I run. East on true line bet. secs. 27 and 34. Over rolling land, through dense undergrowth.
38.00	Enter scattering timber.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 27 in N. half, and S 34 in S. half; from which A cedar 7ins.dia., bears S.32°20'W., 10 ⁴ lks. dist., marked $\frac{1}{4}$ S 34 BT. No other tree within limits; dig pits 18x18x12ins. E. and W. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor..
80.00	The cor. of secs. 26-27-34 and 35. Land, rolling. Soil, sandy loam, 1st.rate. Subsoil, sandstone. Timber, cedar and pinon. Land covered with dense undergrowth or scattering timber on 80.00chs.
14.25	East on true line bet. secs. 26 and 35. Over rolling land, through dense undergrowth and scattering timber. Intersect Utah-Colorado state line at N.0°06'W., 32.66chs. from the 5 ¹⁴ M. cor., heretofore described, carried and withdrawn as described by the surveyor general. Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground

Subdivision of T. 34 S., R. 26 E.

CHAINS

for closing cor. of secs 26 and 35, marked on brass cap,
CC C in E. half,

U in W. half,

T 3⁴ S S 26 in NW. and

R 26 E S 35 in SW. quadrant; from which

A pinon 10ins.dia., bears S.67°05'W., 86 lks. dist.,
marked T 3⁴ S R 26 E S 35 BT.

A pinon 11ins.dia., bears, N.48°30'W., 66 lks. dist.,
marked T 3⁴ S R 26 E S 26 BT.

Land, rolling.

Soil, sandy loam, 2nd. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth and scattering timber
on 14.25chs.

September 16, 1911.

September 19: At 7h.54m., a.m., l.m.t., I set off 37°49'N.
on the lat. arc, 1°47'N. on the decl. arc, and at the cor.
of secs. 26-27-3⁴ and 35, determine a meridian with the
solar. Thence I run

N.0°19'E., bet. secs. 26 and 27.

Over rolling land, through dense undergrowth and scatter-
ing timber.

18.00 Hollow, 75ft. deep, drains SE.

19.60 Leave scattering timber.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 27 in W. half,
and S 26 in E. half; dig pits 18x18x12ins. N. and S. of
post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground
for cor. of secs. 22-23-26 and 27, marked on brass cap,
T 3⁴ S S 22 in NW.

Subdivision of T.34 S., R.26 E,

CHAINS

R 26 E S 23 in NE.

J S 26 in SE. and

S 27 in SW. quadrant; dig pits 18x18x12ins. in each sec.
5½ ft. dist.; and raise a mound of earth 4ft. base, 2ft.

high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber
on 80.00chs.

West on random line bet. secs 22 and 27.

40.00 Set temp, $\frac{1}{4}$ sec. cor.80.00 Intersect N. and S. line 4 lks. S. of the cor. of secs.
21-22-27 and 28.

Thence I run

S.89°58'E., on true line bet. secs 22 and 27.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 22 in N. half,
and S 27 in S. half; dig pits 18x18x12ins. E. and W. of
post 3ft. dist.; and raise a mound of earth 3½ ft. base,
1½ ft. high N. of cor.

80.00 The cor of secs. 22-23-26 and 27.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone and clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

East on true line bet. secs. 23 and 26.

Over rolling land, through dense undergrowth.

13.68 Intersect Utah-Colorado state line at N.0°06'W., 112.66chs.

Subdivision of T. 3⁴ S., R. 26 E.

CHAINS

from the 5⁴ M. cor., heretofore described.

Set an iron post 3ft. long, 2ins. dia., 2¹/₂ins. in the ground for closing cor. of secs. 23 and 26, marked on brass cap, CC C in E. half,

U in W. half,

T 3⁴ S S 23 in NW. and

R 26 E S 26 in SW. quadrant; dig pits 24x18x12ins. crosswise on each line, N. and S. 3ft.; and W. 7ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

No timber:

Undergrowth, sagebrush.

Land covered with dense undergrowth on 13.6gchs.

N. 0°19' E., bet. secs. 22 and 23

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 22 in W. half, and S 23 in E. half; dig pits 18x18x12ins. N. and S. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 14-15-22 and 23, marked on brass cap,

✓ T 3⁴ S S 15 in NW.

✓ R 26 E S 14 in NE.

✓ S 23 in SE. and

✓ S 22 in SW. quadrant; dig pits 18x18x12ins. in each sec.

5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay:

No timber.

Subdivision of T.34 S., R.26 E.

CHAINS

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

September 19: At 11h.54m., a.m., l.m.t., I set off $1^{\circ}43'N.$ on the decl. arc and at the cor. of secs. 14-15-22 and 23, observe the sun on the meridian, the resulting lat. is $37^{\circ}51'N.$ Thence I run

$N.89^{\circ}58'W.$, on random line bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line 2 lks. S. of the cor. of secs. 15-16-21 and 22.

Thence I run

$S.89^{\circ}59'E.$, on true line bet. secs. 15 and 22.

Over rolling land, through dense undergrowth and scattering timber.

8.50 Leave scattering timber.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 in N. half, and S 22 in S. half; dig pits 18x18x12ins. E. and W. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.00 The cor. of secs 14-15-22 and 23.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber on 80.00chs.

East on true line bet. secs 14 and 23.

Over rolling land, through dense undergrowth.

13.11 Intersect Utah-Colorado state line at $S.0^{\circ}06'E.$, 129.32chs. from the 58 M. cor., heretofore described (on 80.00chs.), being a point, marked and with which was also described by the

Subdivision of T. 3⁴ S., R. 26 E.

CHAINS

surveyor-general.

Set an iron post 3ft.long, 2ins, dia., 24ins. in the ground for closing cor. of secs 1⁴ and 23, marked on brass cap, C.C.C in E. half,

U in W. half,

T 3⁴ S S 1⁴ in NW. and

R 26 E S 23 in SW. quadrant; dig pits 24x18x12ins. crosswise on each line, N. and S., 3ft. and W. 7ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 13.11chs.

N. 0°19' E., bet. secs 1⁴ and 15.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft.long, 1 in dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 in W. half, and S 1⁴ in E. half; dig pits 18x18x12ins. N. and S. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3ft.long, 2ins. dia., 24ins. in the ground for cor. of secs 10-11-14 and 15, marked on brass cap,

T 3⁴ S S 10 in NW.

R 26 E S 11 in NE.

S 1⁴ in SE. and S 15 in SW.

S 15 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Subdivision of T. 34 S., R. 26 E.

CHAINS	Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs. September 19, 1911.
	September 21: For solar observation see page 28 of these notes. Thence I run N.89°59'W., on random line bet. secs. 10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line ^{2 lbs. N.} of the cor. of secs. 9-10-15 and 16. Thence I run East on true line bet. secs 10 and 15. over rolling land, through dense undergrowth.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 in N. half, and S 15 in S. half; dig pits 18x18x12ins. E. and W. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
80.00	The cor. of secs 10-11-14 and 15. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
12.54	East on true line bet. secs. 11 and 14. Over rolling land, through dense undergrowth. Intersect Utah-Colorado state line at S.0°06'E., 49.32chs. from the 58 M. cor., heretofore described. Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for closing cor. of secs 11 and 14, marked on brass cap, CC C in E. half, U in W. half, T 3 ⁴ S S 11 in NW. and R 26 E S 1 ¹ in SW. quadrant; dig pits 2 ¹ 4x18x12ins.,

Subdivision of T.34 S., R.26 E.

CHAINS

crosswise on each line, N. and S., 3ft. and W., 7ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 12.54chs.

N.0°19'E., bet. secs. 10 and 11.

Over rolling land, through dense undergrowth.

26.80 Wire fence, bears S.87°00'W.

35.00 Hollow, 65ft. deep, drains E.

38.20 Wire fence, bears N.87°00'W.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 in W. half, and S 11 in E. half; dig pits 18x18x12ins. N. and S. of post 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

A log cabin bears S.57°00'W., 11.47chs.

Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs 2-3-10 and 11, marked on brass cap,

T 34 S S 3 in NW.

R 26 E S 2 in NE.

S 11 in SE. and

S 10 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 2nd. rate.

Subsoil, clay and gravel.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

September 21: At 11h.53m., a.m., l.m.t., I set off 0°56'N.

Subdivision of T.3 $\frac{1}{4}$ S., R.26 E.

CHAINS	on the decl. arc. and at the cor. of secs. 2-3-10 and 11, observe the sun on the meridian, the resulting lat. is $37^{\circ}53'N$. Thence I run west on random line bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 3-4-9 and 10. Thence I run East on true line bet. secs 3 and 10. Over rolling land, through dense undergrowth.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 in N. half, and S 10 in S. half; dig pits 18x18x12ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
76.50	Wagon road, bears NE. and SW.
80.00	The cor. of secs. 2-3-10 and 11. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
11.97	East on true line bet. secs 2 and 11. Over rolling land, through dense undergrowth. Intersect Utah-Colorado state line at N. $0^{\circ}04'W$., 30.68chs. from the 58 M. cor., heretofore described. Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for closing cor. of secs 2 and 11, marked on brass cap, ✓ CC C in E. half, U in W. half, ✓ T 3 $\frac{1}{4}$ S S 2 in NW. and ✓ R 26 E S 11. in SW. quadrant; dig pits 24x18x12ins.,

Subdivision of T.34S., R.26 E.

CHAINS

crosswise on each line, N. and S., 3ft. and W. 7ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor. Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, clay.
No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 11.97chs.

N.0°19' E., on random line bet. secs. 2 and 3.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

81.35 Intersect N.bdy. of Tp. 3 lks. E. of the re-established cor. of secs. 2-3-34 and 35, heretofore described.

Thence I run

S.0°18' W., on true line bet. secs. 2 and 3.

Over rolling land, through dense undergrowth.

41.35 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 in W. half, and S 2 in E. half; dig pits 18x18x12ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

43.95 Wagon road, bears NE. and SW.

81.35 The cor. of secs. 2-3-10 and 11.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 81.35chs.

September 21, 1911.

Ben B. Andrew
U.S. Transitman.

G E N E R A L D E S C R I P T I O N .

GENERAL DESCRIPTION OF T.34 S., R.26 E.

This township is situated on the Utah-Colorado state boundary line and the surface is a gently rolling mesa, covered with scattering groves of heavy timber, dense growth of sage brush or scattering cedar and pinon timber. The soil is generally a sandy loam from 18 to 36 ins. in depth, with a clay subsoil in the northern portion and solid sandstone in the southern portion; the greater part being adapted for dry farming inasmuch as the average annual precipitation exceeds 20 inches.

The only water in this township is Cottonwood Spring in Cottonwood Canyon, the SW $\frac{1}{4}$ Sec.33, and an un-named spring in E. $\frac{1}{2}$ Sec.29, neither of these springs could be located from any point on any line.

There are no settlers in this township.

The cabin and enclosure in SE $\frac{1}{4}$ of Sec.10 and in Sec.11, claimant unknown, is used by local cattlemen.

The wire fence in secs.33 and 34 was constructed by cattlemen.

The telephone line bet. Dolores, Colorado and Monticello, Utah, crosses through the northern portion of this township.

There are no indications of coal, oil or minerals in this township.

Melvin H. Heist
Eber B. Andrews
U.S. Transitmen.

BOOK A-393

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of

For certificates of assistants see book "Z" T. 52 S. R. 26 E.

of the _____ Meridian, in the State of _____

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191_____, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oaths of transitmen see book "Z" T. 38 S., R. 26 E.

..... of the Meridian, in the State of which are represented the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this day of , 191 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19, 1914

The foregoing field notes of the survey of the subdivisional lines of Township No. 34 South, Range No. 26 East of the Salt Lake Base and Meridian, Utah,

executed by Kelvin D. Heist and Elben B. Andrews
under their special instructions dated May 22, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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FIELD NOTES
RESURVEY
OF THE SURVEY OF THE

NORTH BOUNDARY.

of

TOWNSHIP NO. 34 SOUTH, RANGE NO. 26 EAST.

Of the SALT LAKE BASE and Meridian,

In the State of UTAH.

EXECUTED BY

Melvin D. Heist and Eben B. Andrews.

Transitmen

In the capacity of U.S. Surveyors, under instructions dated May 22, 1911, issued by the United States Surveyor General to govern surveys included in Group No. 12, which were approved by the Commissioner of the General Land Office, June 17, 1911, pursuant to authority contained in the Act of Congress dated 1911.

Survey commenced September 19, 1911.

Survey completed September 20, 1911.

Rev. - 4-11-48 ✓ Closing 49-26.

BOOK A-393

INDEX DIAGRAM.

Township 34 SOUTH, Range 26 EAST.

2	3	4	5	6	7	8
6			4	3	2	1
7	8	9		10	11	12
18	17	16		15	14	13
19	20	21		22	23	24
30	29	28		27	26	25
31	32	33		34	35	36

Resurvey of the North Boundary of T.34 S., R.26 E.

Survey commenced September 19, 1911, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 33 and 34 S., Rs. 25 and 26 E., heretofore described, in approximate latitude $37^{\circ}54'N.$, longitude $109^{\circ}09'W.$, I set off $37^{\circ}54'N.$, on the lat. arc, $1^{\circ}40'N.$, on the decl. arc, and at 3h.54m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5chs. N. of the cor. At 7h.42m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground 5chs. N. of my station.

September 19, 1911.

September 20: At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.3ins. west of the mark determined by the solar.

At 7h.54m., a.m., l.m.t., I set off $37^{\circ}54'N.$ on the lat. arc, $1^{\circ}24'N.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.3ins. west of the meridian established by the Polaris observation.

The solar apparatus, by a.m. and p.m. observations, defines positions for the meridians, respectively about $0'16''$ west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

Resurvey of the North Boundary of T.34 S., R.26 E.

CHAINS

The magnetic bearing of the true meridian at 8h.30m., a.m., is N. $15^{\circ}35'W.$, the angle thus determined gives the mag. decl. $15^{\circ}35'E.$

Knowing from retracements and resurveys of the original exteriors, that they are out of limits or missing and there being no subdivisions dependent upon the N.bdy. of T.34 S., R.26 E., I proceed to resurvey the line as follows:

From the Tp. cor. already described I run

East, resurveying bet. secs 6 and 31.

over rolling land, through heavy timber.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S$ 31 in N. half, and S 6 in S. half; from which

A pinon 9ins.dia., bears, N. $48^{\circ}20'E.$, 51 lks. dist., marked $\frac{1}{4} S 31 BT.$

A pinon 18ins.dia., bears. S. $46^{\circ}07'W.$, 12 lks. dist., marked $\frac{1}{4} S 6 BT.$

From this cor. the old cor., which is a cedar, post, marked and witnessed as described by the surveyor general, bears S. $40^{\circ}59'W.$, 296 lks. dist. I destroy all marks of the old cor.

44.30 Leave heavy timber, bears N. and S. Enter dense undergrowth.

48.15 Enter scattering timber.

64.70 A pinon tree 13ins.dia. on line, marked with 2 notches on E. and W.

80.00 Set an iron post 3ft.long, 3ins.dia., 26ins. in the ground for re-established cor. of secs. 5-6-31 and 32, marked on brass cap, T. 33 S S 31 in NW.

R 26 E S 32 in NE.

R 26 E S 5 in SE. and

T. 34 S. S 6 in SW. quadrant; from which

A cedar 6ins.dia., bears N. $57^{\circ}15'E.$, 185 lks. dist., marked T. 33 S R 26 E S 32 BT.

A cedar 9ins.dia., bears S. $79^{\circ}49'W.$, 228 lks. dist.,

Resurvey of the North Bdy. of T.34 S., R.26 E.

CHAINS

marked T 34 S. R 26 E S 5 BT.

A cedar 10ins.dia., bears, S. $14^{\circ}07'W.$, 29 $\frac{1}{4}$ lks. dist., marked T 34 S R 26 E S 6 BT.

No other tree within limits; dig pits 18x18x12ins, in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

From this cor. the old cor., which is a pinon post, marked and witnessed as described by the surveyor general, bears S. $40^{\circ}45'W.$, 291 lks. dist. I destroy all marks of the old cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with scattering timber and dense undergrowth on 80.00chs.

East resurveying bet. secs. 5 and 32.

Over rolling land, through dense undergrowth and scattering timber.

1.30 Leave dense undergrowth. Enter heavy timber, bears NW. and SE.

28.50 Forked pinon tree on line, marked with 2 notches on the E. and W.

40.00 Set an iron post 3ft, long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 in N. half, and S 5 in S. half; from which

A pinon 7ins.dia., bears, N. $28^{\circ}46'W.$, 4 lks. dist., marked $\frac{1}{4}$ S 32 BT.

A pinon 6ins.dia., bears, S. $12^{\circ}59'E.$, 35 lks. dist., marked $\frac{1}{4}$ S 5 BT.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.

72.25 Leave heavy timber, bears NW. and SE. Enter scattering

-4-

Resurvey of the North Boundary of T.34 S., R.26 E.

CHAINS	timber and dense undergrowth.
80.00	Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 4-5-32 and 33, marked on brass cap, T 33 S S 32 in NW. R 26 E S 33 in NE. R 26 E S 4 in SE. and T 34 S S 5 in SW. quadrant; from which A cedar 11ins.dia., bears N.42°15'E., 51 lks. dist., marked T 33 S R 26 E S 33 BT. A cedar 6ins.dia., bears S.8°16'E., 60 lks. dist., marked T 34 S R 26 E S 4 BT. A cedar 5ins.dia., bears S.24°26'W., 25 lks. dist., marked T 34 S R 26 E S 5 BT. A cedar 7ins.dia., bears N.26°40'W., 108 lks. dist., marked T 33 S R 26 E S 32 BT. From this cor., the old cor., which is a cedar post, marked and witnessed as described by the surveyor general, bears S.37°10'W., 309 lks. dist. I destroy all marks of the old cor. Land, rolling. Soil, sandy loam and clay, 2nd. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with scattering timber and dense undergrowth on 80.00chs.
6.70	September 20: At 11h.54m., a.m., l.m.t., I set off 1°20'N. on the decl. arc, and at the above cor. observe the sun on the meridian, the resulting lat. is 37°54'N. Thence I run East resurveying bet. secs 4 and 33. Over rolling land, through dense undergrowth and scattering timber. Leave dense undergrowth. Enter heavy timber, bears NW. and SE.

Resurvey of the North Boundary of T.3⁴S., R.26 E.

CHAINS	
28.15	Leave heavy timber, bears NW. and SE. Enter scattering timber and dense undergrowth.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 in N. half, and S 4 in S. half; from which
	A pinon 7ins.dia., bears N.48°00'W., 31 lks. dist., marked $\frac{1}{4}$ S 33 BT.
	A pinon 8ins.dia., bears S.41°12'E., 36 lks. dist., marked $\frac{1}{4}$ S 4 BT.
	After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.
46.28	Leave dense undergrowth. Enter heavy timber, bears NW. and SE.
68.20	Leave heavy timber, bears NE. and SW. Enter scattering timber and dense undergrowth.
.80.00	Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 3-4-33 and 3 ⁴ , marked on brass cap, T 33 S S 33 in NW..
	R 26 E S 3 ⁴ in NE..
	R 26 E S 3 in SE. and
	T 3 ⁴ S S 4 in SW. quadrant; from which
	A pinon 12ins.dia., bears N.26°20'E., 31 lks. dist., marked T 33 S R 26 E S 3 ⁴ BT.
	A pinon 6ins.dia., bears S.62°39'E., 61 lks. dist., marked T 3 ⁴ S R 26 E S 3 BT.
	A cedar 11ins.dia., bears S.52°30'W., 54 lks. dist., marked T 3 ⁴ S R 26 E S 4 BT.
	A pinon 9ins.dia., bears N.21°45'W., 88 lks. dist., marked T 33 S R 26 E S 33 BT.
	From this cor. the old cor., which is a cedar post, marked and witnessed as described by the surveyor general, bears S.34°00'W., 328 lks. dist. I destroy all marks of the old cor.
	Land, rolling.
	Soil, sandy loam, 1st. rate.

Resurvey of the North Boundary of T.34 S., R.26 E.

CHAINS

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-growth on 80.00chs.

East resurveying bet. secs 3 and 34.

Over rolling land, through heavy timber.

5.22 Leave heavy timber, bears NW. and SE. Enter scattering timber and dense undergrowth.

5.50 Telephone line, Dolores, Colorado to Monticello, Utah, bears N.47°00'E.

26.35 Leave scattering timber.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 $\frac{1}{4}$ in N. half, and S 3 in S. half; dig pits 18x18x12ins. E. and W. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
From this cor., the old cor., which is a cedar post, marked and witnessed as described by the surveyor general, bears S.34°00'W., 308 lks. dist. I destroy all marks of the old cor.

80.00 Set an iron post 3ft.long, 3 ins.dia., 24ins. in the ground for re-established cor. of secs. 2-3-3 $\frac{1}{4}$ and 35, marked on brass cap, T 33 S S 3 $\frac{1}{4}$ in NW.

R 26 E S 35 in NE.

R 26 E S 2 in SE. and

T 34 S S 3 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

From this cor. the old sec. cor., which is a pinon post, marked and witnessed as described by the surveyor general, bears S.35°59'W., 290 lks. dist. I destroy all marks of the old cor.

Land, rolling.

Resurvey of the North Boundary of T.3⁴ S., R.26 E.

CHAINS

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense undergrowth on 80.00 chs.

East, resurveying bet. secs. 2 and 35.

Over rolling land, through dense undergrowth.

9.54 Wagon road, bears NW. and SE.

11.48 Intersect Utah-Colorado state line at S.0°04'E., 49.26 chs. from the 60th. Mile. Cor. and N.0°04'W., 112.02 chs. from the 58th. Mile. Cor. described on the retrace of the Utah-Colorado State Boundary line.

Set an iron post 3ft. long, 3ins, dia., 2¹/₂ins. in the ground for closing cor. of Tps. 33 and 34 S., R.26 E., marked on brass cap, CC C on E. half,

U on W. half,

T 33 S R 26 E S 35 in NW. and

/T 34 S R 26 E S 2 in SW. quadrant; raise a mound of stone 2ft. base, 1¹/₂ ft. high W. of cor. Pits impractical.

From this cor. the old cor., which is a sandstone, marked and witnessed as described by the surveyor general, bears South, 23⁴ lks. dist. I destroy all traces of the cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 11.48 chs.

September 20, 1911.

Melvin H. Thirst
U.S. Transitman.

BOUNDARIES OF T.3⁴ S., R.26 E.

Latitudes, departures and closing errors.

Resurvey of the North Boundary of T.34 S., R.26 E.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
Utah-Colo. Bdy.	S.0°04'E.	112.02		112.02	.13	
	S.0°06'E.	321.96		321.96	.56	
	S.0°03'E.	47.34		47.34	.04	
South Bdy.	West.	334.72				334.72
West Bdy.	N.0°16'E.	481.41	481.41		2.23	
North Bdy.	East.	331.48				331.48
Convergency					.39	
		481.41	481.38	334.83	334.72	
		481.38		334.72		
Error in lat. and dep.		.09			.11	

For general description see subdivision of T.34 S., R.26 E.

Melvin D. Heist
Eben B. Andrews
U.S. TRANSITMEN

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of

For certificate of assistants see book "Z¹" T. 32 S., R. 26 E.

of the _____ Meridian, in the State of _____

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the day of , 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final oath of transition see book "Z" T. 32 S., R. 26 E.

..... of the Meridian, in the State of which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said , and sworn to before me }
this day of , 191 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Salt Lake City, Utah. March 19

re , 191 4.

The foregoing field notes of the survey of the North Boundary of Township No. 34 South, Range No. 26 East of the Salt Lake Base and Meridian, Utah,

executed by Melvin D. Heist

under his special instructions dated May 22

, 191 1, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

A large, stylized handwritten signature, likely belonging to Thomas A. Howell, Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in , has been correctly copied from the original notes on file in this office.

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FEB 10 1912
*[Handwritten signatures]**E.W.*
"S"
BOOK A-393

FIELD NOTES

RETRACEMENT
OF THE SURVEY OF THE

W E S T B O U N D A R Y

and
RESURVEY OF THE NORTH BOUNDARY
O F .

TOWNSHIP NO. 33 SOUTH, RANGE NO. 26 East,

Of the Salt Lake Base and Meridian,

In the State of in the state of Utah

EXECUTED BY

Melvin D. Heist, and Eben B. Andrews

Transitmen
In the capacity of U. S. Surveyors, under instructions dated May 22, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 12, which were approved by the Commissioner of the General Land
Office, June 17, 1911, pursuant to authority contained in the Act of
Congress dated , 1911.

Survey commenced September 19, 1911.

Survey completed September 29, 1911.

Peter W. Raby 6-00-96

Rev. N. Raby 4-10-99 closing 29-38



Survey commenced September 19, 1911, and executed with the instrument described in book "D"; of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 33 and 34 S., Rs. 25 and 26 E., heretofore described, in approximate latitude $37^{\circ}54'N.$, longitude $109^{\circ}09'W.$, I set off $37^{\circ}54'N.$ on lat.arc, $1^{\circ}40'N.$ on decl.arc, and at 3h.54m., p.m., l.m.t., determine with the solar a meridian, and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

At 7h.42m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs.N. of my station.

September 19, 1911

September 20: At 7 a.m., I lay off the azimuth of Polaris, $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h.54m., a.m., l.m.t., I set off $37^{\circ}54'N.$ on lat.arc, $1^{\circ}24'N.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs.N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0'11" west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m. is $N.15^{\circ}40'W.$, the angle thus determined gives the mag. decl. $15^{\circ}40'E.$

~~RETRACEMENT OF THE WEST BOUNDARY OF T.33 S., R.26 E.~~

CHAINS

From the Tp.cor.heretofore described, I run
North, retracing bet.secs.31 and 36.
Gradual ascent over rolling land, through heavy timber.
40.09 Fall 13 lks.E. of the $\frac{1}{4}$ sec.cor. which is a cedar post,
4 ins.diam., projecting 20 ins.above the ground, marked and
witnessed as described by the surveyor general.

I continue on same line.
Leave timber, bears E. and W. Enter dense undergrowth.
Fall 26 lks.E. of the cor.of secs.25-30-31 and 36, which
is a cedar post, 4 ins.diam., projecting 18 ins.above the
ground, marked and witnessed as described by the surveyor
general.

The course of this line is therefore N.0°11'W., and the
distance 80.10 chs.

Land rolling.

Soil, sandy loam, 1st.rate from 12 to 18 ins.deep.
Subsoil, rocky.

Timber, cedar and pinon.

Undergrowth, sage brush.

Heavily timbered land or land covered with dense
undergrowth on 80.10 chs.

North, retracing bet.secs.25 and 30..

Gradual ascent over rolling land, through dense under-
growth.

40.04 Fall 7 lks.E. of the $\frac{1}{4}$ sec.cor. which is a cedar post, 3
ins.diam., projecting 16 ins.above ground, marked and
witnessed as described by the surveyor general.
I continue on same line.

74.80 Enter scattering timber.

80.11 Fall 14 lks.E. of the cor.of secs.19-24 25 and 30, which
is a cedar post, 4 ins.diam., projecting 15 ins.above
ground, marked and witnessed as described by the surveyor
general.

The course of this line is therefore N.0°06'W., and the
distance 80.11 chs.

RETRACEMENT OF THE WEST BOUNDARY OF T.33 S., R.26 E.

CHAINS

Land rolling.
Soil, sandy loam, 1st. rate, from 15 to 18 ins. deep.
subsoil, gravel.
Timber, scattering cedar and pinon.
Undergrowth, sage brush.
Land covered with dense undergrowth on 80.11 chs.

North, retracing bet. secs. 19 and 24.

Gradual ascent over rolling land through dense undergrowth and scattering timber.

40.08 Fall 13 lks. E. of the $\frac{1}{4}$ sec. cor. which is a cedar post, 3 ins. dia., projecting 18 ins. above ground, marked and witnessed as described by the surveyor general.
This cor. is set at a wire fence, bearing E. and W.
I continue on same line.

58.00 Enter heavy timber, bears E. and W.

74.50 Leave timber, bears E. and W.

80.10 Fall 26 lks. E. of the cor. of secs. 13-18-19 and 24, which is a pinon post, 4 ins. diam., projecting 20 ins. above the ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore N. 0° 11' W., and the distance 80.10 chs.

Land, rolling.

Soil, rocky loam, 2nd. rate, from 12 to 18 ins. deep.

Subsoil, gravel.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth or heavily timbered land on 80.10 chs.

September 20: At this cor. I set off 1° 19' N. on decl. arc, and at 11h. 54m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37° 56' N.

-4-

RETRACEMENT OF THE WEST BOUNDARY OF T.33 S., R.26 E.

CHAINS

North, retracing bet. secs. 13 and 18.

Gradual ascent over rolling land, through dense under-growth.

4.90 Road between Dolores, Colorado and Monticello, Utah, bears E. and W.

40.11 Fall 1 1/2 lks. W. of the $\frac{1}{4}$ sec. cor. which is a cedar post, 3 ins. diam., projecting 18 ins. above the ground, marked and witnessed as described by the surveyor general. I continue on same line.

Enter cultivated land, bears E. and W.

75.00 Leave cultivated land, bears E. and W.

76.12 Wagon road, bears NE. and SW.

80.13 Intersect the cor. of secs. 7-12-13 and 18, which is a sandstone, 6x12x2 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore North and the distance 80.13 chs.

Land, rolling.

Soil, sandy loam, 1st. rate from 12 to 18 ins. deep.

subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 45.24 chs.

North, retracing bet. secs. 7 and 12.

Gradual ascent over rolling land, through dense under-growth.

16.50 Enter scattering timber.

40.08 Fall 3 1/2 lks. E. of the $\frac{1}{4}$ sec. cor. which is a sandstone, 10x10x3 ins. above ground, marked and witnessed as described by the surveyor general.

I continue on same line.

47.50 Leave timber.

80.14 Fall 7 lks. E. of the cor. of secs. 1-6-7 and 12, which is a sandstone, 6x10x4 ins. above ground, marked and witnessed as described by the surveyor general.

RETRACEMENT OF THE WEST BOUNDARY OF T.33 S., R.26 E.

CHAINS

The course of this line is therefore N. $0^{\circ}03'W.$, and the distance 80.14 chs.

Land, rolling.

Soil, sandy loam, 1st. rate from 12 to 18 ins. deep.

Subsoil, gravel.

Timber, scattering cedar and pinon.

Undergrowth, sage brush..

Land covered with dense undergrowth on 80.14 chs.

North, retracing bet. secs. 1 and 6.

Gradual ascent over rolling land, through dense undergrowth.

8.50 Wash, 35 lks. wide, 8 ft. deep, course SW.

13.00 Enter scattering timber.

40.12 Fall 1 $\frac{1}{2}$ lk. E. of the $\frac{1}{4}$ sec. cor. which is a sandstone, 8x10x3 ins. above ground, marked and witnessed as described by the surveyor general.

I continue on same line.

67.50 Wagon road, to East Canyon, Bearas NW. land SE. Leave timber.

80.38 Fall 3' lks. E. of the cor. of Tps. 32 and 33 S., Rs. 25 and 26 E., which is a sandstone, 10x12x4 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore N. $0^{\circ}01'W.$, and the distance 80.38 chs.

Land, rolling.

Soil, sandy loam, from 12 to 18 ins. deep, 1st rate.

Subsoil, gravel.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.38 chs.

September 20, 1911

RETRACEMENT OF THE WEST BOUNDARY OF T.33 S., R:26 E.

CHAINS

For General Description see Subsivisions of T.33 S.,

R.26 E.

For table of latitudes and departures see resurvey of
North Edy. of T.33 S., R. 26 E.

Eber B Andrews
U.S. Transitman

RESURVEY OF THE NORTH BOUNDARY OF T.33 S., R.26 E.

CHAINS

Survey commenced September 27, 1911, and executed with the instrument described in book "D", of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 32 and 33 S., Rs. 25 and 26 E., heretofore described, in approximate latitude $37^{\circ}59'N.$ longitude $109^{\circ}09'W.$, I set off $37^{\circ}59'N.$ on lat.arc, $1^{\circ}27'S.$ on decl.arc, and at 3h.51m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

At 7h.16m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs.N. of my station.

September 27, 1911

September 28: At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins.east of the mark determined by the solar.

At 7h.51m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on lat.arc, $1^{\circ}43'S.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.2 ins.east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $0'11''$ west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m. is $N.15^{\circ}40'W.$, the angle thus determined gives the mag. decl. $15^{\circ}40'E.$

CHAINS

Knowing from retracements and resurveys of the original exteriors, that they are out of limits or missing and there being no subdivisions dependent upon the N.bdy.of T.33 S., R.26 E., I proceed to resurvey the line as follows:

From the Tp.cor.already described, I run

East, resurveying betsecs.6 and 31.

Gradual descent over rolling land, through dense under-growth.

40700 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap. $\frac{1}{4}$ S 31 on N.half, S 6' on S.half, dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high, N.of cor.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec.cor.

56.00 Enter scattering timber.

80.00 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground, for re-established cor.of secs.5-6 31 and 32, marked on brass cap,

T 32 S S 31 in NW.,

R 26 E S 32 in NE.,

R 26 E S 5 in SE., and

T 33 S S 6' in SW.quadrant, dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.high, W.of cor.

No trace can be found of the old sec.cor.
Land, rolling.

Soil, sandy loam, from 12 to 18 ins.deep, 1st rate.

Subsoil, gravel and rocky.

Timber, scattering live and burnt cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

RESURVEY OF THE NORTH BOUNDARY OF T.33 S., R.26 E.

CHAINS

East, resurveying bet. secs. 5 and 32.

Gradual descent over rolling land, through dense under-growth and scattering dead timber.

13.00 Leave timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 32 on N. half, S 5 on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.

September 28: At this cor. I set off $1^{\circ}47' S.$ on decl. arc, and at 11h.51m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}59' N.$

45.40 Road, bears NW. and SE.

46.00 Enter scattering dead timber.

79.00 Enter live scattering timber.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground for re-established cor. of secs. 4-5-32 and 33, marked on brass cap,

T 32 S S 32 in NW.,

R 26 E S 33 in NE.,

R 26 E S 4 in SE. and

T 33 S S 5 in SW. quadrant, from which

A pinon, 16 ins. diam., bears $N.61^{\circ}30' E.$, 27 lks. dist., marked T 32 S R 26 E S 33 BT.

A pinon, 8 ins. diam., bears $S.20^{\circ}20' E.$, 31 lks. dist., marked T 33 S R 26 E S 4 BT.

A pinon, 8 ins. diam., bears $S.82^{\circ}25' W.$, 49 lks. dist., marked T 33 S R 26 E S 5 BT.

A pinon, 14 ins. diam., bears $N.76^{\circ}30' W.$, 71 lks. dist., marked T 32 S R 26 E S 32 BT.

No trace can be found of the old sec.cor.
Land, rolling.

Soil, sandy loam, from 12 to 18 ins. deep, 1st. rate

Subsoil, gravel and rocky.

RESURVEY OF THE NORTH BOUNDARY OF T.33 S., R.26 E.

CHAINS

Timber, scattering live and dead cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

East, resurveying bet. secs. 4 and 33.

Descend over rolling land through scattering timber and dense undergrowth.

15.00 Enter heavy timber, bears N. and S.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 on N. half, S 4 on S. half, from which

A pinon, 8 ins. diam., bears S. $3^{\circ}05'W.$, 21 lks. dist., marked $\frac{1}{4}$ S 4 BT.

A pinon, 13 ins. diam., bears N. $15^{\circ}40'W.$, 36 lks. dist., marked $\frac{1}{4}$ S 33 BT.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.

44.00 Leave timber, bears N. and S.

Enter scattering timber.

80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established cor. of secs. 3-4-33 and 34, marked on brass cap, T 32 S S 33 in NW.,

R 26 E S 34 in NE.,

R 26 E S 3 in SE., and

T 33 S S 4 in SW. quadrant, from which

A pinon, 7 ins. diam., bears N. $38^{\circ}50'E.$, 71 lks. dist., marked T 32 S R 26 E S 34 BT.

A cedar, 8 ins. diam., bears S. $67^{\circ}30'W.$, 217 lks. dist., marked T 33 S R 26 E S 3 BT.

A pinon, 8 ins. diam., bears S. $34^{\circ}10'W.$, 74 lks. dist., marked T 33 S R 26 E S 4 BT.

A pinon, 8 ins. diam., bears N. $13^{\circ}W.$, 113 lks. dist., marked T 32 S R 26 E S 33 BT.

After diligent search no trace can be found of the old sec. cor.

RESURVEY OF THE NORTH BOUNDARY OF T.33 S., R.26 E.

CHAINS

Land, rolling.
Soil, rocky loam, from 12 to 15 ins. deep, 2nd. rate.
Subsoil, rocky.
Timber, cedar and pinon.
Undergrowth, sage brush.
Land covered with dense undergrowth and heavily timbered land on 80.00 chs.

September 28, 1911

September 29: At 7h.51m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on lat.arc, $2^{\circ}06'S.$ on decl.arc, and determine a meridian with the solar at the re-established cor. of secs. 3-4-33 and 34.

Thence I run

East, resurveying bet. secs. 3 and 34.

Descend over rocky land, through scattering timber and dense undergrowth.

- 5.21 Begin abrupt descent over sandstone ledges, bearing NE. and SW.
- 17.50 Bottom of Summit Canyon, 250 ft. deep, course NE.
Over level land; through dense undergrowth.
- 18.00 Wash, 10 lks. wide, 6 ft. deep, course NE.
- 28.00 Begin abrupt ascent over sandstone ledges, bearing NE. and SW.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for re-established $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 34$ on N.half, $S 3^1$ on S.half, from which
A pinon, 14 ins. dia. bears $S.22^{\circ}10'E.$, 12 lks. dist.,
marked $\frac{1}{4} S 3^1 BT.$
A cedar, 11 ins. diam., bears $N.52^{\circ}50'W.$, 11 lks. dist.
marked $\frac{1}{4} S 3^1 BT.$
- After diligent search no trace can be found of the old $\frac{1}{4}$ sec.cor.
- 46.00 Top of ledges, bearing NE. and SW.
Gradual ascent over rolling land.
- 80.00 Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for re-established cor.of secs. 2-3-34 and 35,

RESURVEY OF THE NORTH BOUNDARY OF T.33 S., R.26 E.

CHAINS	
	marked on brass cap, T 32 S S 34 in NW., R 26 E S 35 in NE., R 26 E S 2 in SE. and T 33 S S 3 in SW. quadrant, from which A pinon, 8 ins. diam., bears N. $52^{\circ}15' E.$, 103 lks. marked T 32 S R 26 E S 35 BT.
	A cedar, 6 ins. diam., bears S. $88^{\circ}22' E.$, 45 lks. dist., marked T 33 S R 26 E S 2 BT.
	A cedar, 5 ins. diam., bears S. $90^{\circ}30' W.$, 188 lks. dist., marked T 33 S R 26 E S 3 BT.
	A cedar, 5 ins. diam., bears N. $68^{\circ}45' W.$, 198 lks. dist., marked T 32 S R 26 E S 34 BT.
	After diligent search no trace can be found of the old sec.cor.
	Land, rolling, level and mountainous. Soil, rocky, broken and solid sandstone ledges, 3rd. and 4th. rate. Subsoil, solid sandstone. Timber, cedar and pinon. Undergrowth, sage brush, etc. Land covered with dense undergrowth or mountainous land on 80.00 chs.
10.99	East, resurveying bet. secs. 2 and 35. Over rolling land, through dense undergrowth and scattering timber. Intersect Utah-Colorado State Boundary Line at N. $1^{\circ}00' W.$ 29.38 chs. from the 65 Mile Cor., heretofore described. Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing cor. of Tps. 32 and 33 S., R. 26 E., marked on brass cap, CC. C on E. half, U on W. half, T 32 S R 26 E S 35 in NW., and T 33 S R 26 E S 2 in SW. quadrant, from which A cedar, 10 ins. diam., bears S. $18^{\circ}W.$, 37 lks. dist., marked T 33 S R 26 E S 2 BT. A pinon, 9 ins. diam., bears N. $49^{\circ}55' W.$, 58 lks. dist. marked T 32 S R 26 E S 35 BT.

RESURVEY OF THE NORTH BOUNDARY OF T.33 S., R.26 E.

CHAINS No trace can be found of the old closing cor.
 Land, rolling.
 Soil, rocky loam, from 10 to 15 ins. deep, 2nd. rate.
 Subsoil, rocky.
 Timber, scattering cedar and pinon.
 Undergrowth, sage brush.
 Land covered with dense undergrowth on 10.99 chs.
 September 29: At this cor. I set off 2°11' S. on decl. arc,
 and at 11h.51m., a.m., l.m.t., observe the sun on the
 meridian, the resulting lat. is 37°59' N. September 29, 1911
Eben B. Andrews

U.S. Transitman,

BOUNDARIES OF T.33 S., R.26 E.

Latitudes, departures and closing errors

Line Designated	True Bearing	Distance	Latitudes N. S.	Departures E. W.
Utah-Colo. Bdy.		Chs.	Chs.	Chs. Chs.
	S.1°00'E.	29.38	29.38	0.51
	S.0°35'E.	80.45	80.45	0.82
	S.0°06'W.	80.51	80.51	0.14
	South	80.56	80.56	
	S.0°10'W.	161.03	161.03	0.46
	S.0°4'E.	49.26	49.26	0.06
South Bdy.	West	331.48		331.48
West Bdy.	N.0°11'W.	80.10	80.10	0.26
	N.0°06'W.	80.11	80.11	0.14
	N.0°11'W.	80.10	80.10	0.26
	North	80.13	80.13	
	N.0°03'W.	80.14	80.14	0.07
	N.0°01'W.	80.38	80.38	0.02
North Bdy.	East	330.99		330.99
Convergency				0.39
	Totals	480.96	481.19 332.77	332.85
			480.96	332.77
	Error in lat. and dep.		0.23 0.12	.06

For General Description see Subdivisions of T.33 S., R.26 E.

Alvin H. Heist *Eben B. Andrews*
 U.S. Transitman

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CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of
For certificate of assistants see book "Z" T. 32 S., R. 26 E.

of the Meridian, in the State of which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the day of 191..... I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final oath of transition see back "N" T. 22 S., R. 26 E.

..... of the Meridian, in the State of which are represented by the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

U. S. Surveyor

Subscribed by said and sworn to before me
this day of 191



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 191

re

The foregoing field notes of the survey of the North and retracement of the boundaries of Township No. 35 South, Range No. 26 East of the Salt Lake Base and Meridian, Utah.

executed by Eben B. Andrews
under his special instructions dated May 22, 191, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

U. S. Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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FEB 10 1918

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BOOK A-393

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N S

of

TOWNSHIP NO. 33 SOUTH, RANGE NO. 26 EAST

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Melvin D. Heist and Eben B. Andrews

Transitmen

In the capacity of U. S. Surveyors, under instructions dated May 22, 1911, issued by the United States Surveyor General to govern surveys included in Group No. 12, which were approved by the Commissioner of the General Land Office, June 17, 1911, pursuant to authority contained in the Act of Congress dated , 1911.

Survey commenced September 21, 1911

Survey completed September 29, 1911

44-68-53

Blomberg 9-59-84

PARK A-393

INDEX DIAGRAM.

Township 33 SOUTH, Range 26 EAST.

6	10	5	20	4	30	3	43	2	1
9		19		29		41		42	
7	8	8	19	9	28	10	40	11	12
7		18		27		39		39	
18	6	17	17	16	27	15	38	14	13
6		16		26		37		37	
19	5	29	15	21	25	22	36	23	24
4		14		24		34		35	
30	3	29	13	28	23	27	34	26	25
2		13		22		32		33	
31	2	32	12	33	21	34	31	35	36

SUBDIVISIONS OF T.33 S., R.26 E.

Survey commenced September 21, 1911, and executed with the instrument described in book "D", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of secs. 31-32-5 and 6, heretofore described, in approximate latitude $37^{\circ}54'N.$, longitude $109^{\circ}08'W.$, I set off $37^{\circ}54'N$ on lat.arc, $0^{\circ}53'N.$ on decl.arc, and at 3h.53m.p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

At 7h.34m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs.N. of my station.

September 21, 1911

September 22: At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h.53m., a.m., l.m.t., I set off $37^{\circ}54'N.$ on lat.arc, $0^{\circ}37'N.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridian, respectively about $0^{\circ}11'$ west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m., is $N.15^{\circ}40'W.$, the angle thus determined gives the mag. decl. $15^{\circ}40'E.$

SUBDIVISIONS OF T. 33 S., R. 26 E.

CHAINS	From the sec.cor. already described, I run N.0°10'W., bet. secs. 31 and 32. Gradual ascent over rolling land, through dense undergrowth.
15.00	Enter heavy timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 31 on W. half, S 32 on E. half, from which A cedar, 12 ins. diam., bears N.60°05'E. 82 lks. dist., marked $\frac{1}{4}$ S 32 BT. A cedar, 13 ins. diam., bears N.74°55'W., 94 lks. dist., marked $\frac{1}{4}$ S 31 BT.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 29-30-31 and 32, marked on brass cap, T 33 S S 30 in NW., R 26 E S 29 in NE., S 32 in SE. and S 31 in SW. quadrant, from which A cedar, 7 ins. diam., bears N.79°00'E. 87 lks. dist., marked T 33 S R 26 E S 29 BT. A cedar, 6 ins. diam., bears S.61°25'E. 74 lks. dist., marked T 33 S R 26 E S 32 BT. A cedar, 14 ins. diam., bears S.87°35'W. 137 lks. dist., marked T 33 S R 26 E S 31 BT. A cedar, 9 ins. diam., bears N.80°30'W. 157 lks. dist., marked T 33 S R 26 E S 30 BT. Land, rolling. Soil, sandy loam, from 15 to 20 ins. deep, 1st. rate. subsoil, gravel and sandstone. Timber, heavy cedar and pinon. Undergrowth, dense sage brush. Land covered with dense undergrowth, or covered with heavy timber on 80.00 chs.
40.00	West, on a random line, bet. secs. 30 and 31. Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect West, bdy. of Tp., 5 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

Thence I run

S.89°58'E., on a true line,

Bet. secs. 30 and 31.

Gradual descent over rolling land, through dense under-growth.

23.80 Enter heavy timber, bears N. and S.

39.99 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 on N. half, S 31^v on S. half, from which

A cedar, 18 ins. diam., bears N. 79°02'E., 88 lks.

dist., marked $\frac{1}{4}$ S 30 BT.

A cedar, 7 ins. diam., bears S. 60°30'E., 187 lks.

dist., marked $\frac{1}{4}$ S 31 BT.

79.98 The cor. of secs. 29-30-31 and 32.

Land, rolling.

Soil, sandy loam, from 15 to 20 ins. deep, 1st. rate.

Subsoil, gravel and sandstone.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth or heavily timbered on 79.98 chs.

N.0°05'W., bet. secs. 29 and 30.

Gradual ascent over rolling land, through heavy timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 on W. half, S 29^v on E. half, from which

A cedar, 8 ins. diam., bears S. 61°25'W., 15 lks.

dist., marked $\frac{1}{4}$ S 30 BT.

A cedar, 10 ins. diam., bears S. 41°20'E., 47 lks.

dist., marked $\frac{1}{4}$ S 29 BT.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked on brass cap, T 33 S S 19^v in NW.,

R 26 E S 20 in NE.,

S 29 in SE. and S 30^v in SW. quadrant, from which

SUBDIVISIONS OF T.33 S., R 26 E.

CHAINS	A cedar, 8 ins. diam., bears N. $44^{\circ}E.$ 63 lks. dist., marked T 33 S R 26 E S 20 BT.
	A cedar, 55 ins. diam., bears S. $21^{\circ}E.$ 79 lks. dist., marked T 33 S R 26 E S 29 BT.
	A cedar, 20 ins. diam., bears S. $86^{\circ}50'W.$ 232 lks. dist., marked T 33 S R 26 E S 30 BT.
	A cedar, 7 ins. diam., bears N. $9^{\circ}30'W.$ 208 lks. dist., marked T 33 S R 26 E S 19 BT.
	Land, rolling.
	Soil, gravelly loam, from 12 to 15 ins. deep, 2nd. rate, with gravel subsoil.
	Timber, heavy cedar and pinon.
	Land, covered with heavy timber on 80.00 chs.
	September 22; At this cor. I set off $0^{\circ}33'N.$ on decl. arc, and at 11h.53m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}56'N.$
	N. $89^{\circ}58'W.$ on a random line, bet, secs 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect W.bdy. of Tp., 21 lks. S.of the cor.of secs. 19-24-25 and 30, heretofore described.
	Thence I run
	S. $89^{\circ}49'E.$ on a true line,
	Bet. secs. 19 and 30.
	Over rolling land, through scattering timber, and dense undergrowth..
3.00	Leave scattering timber, bears NE. and SW.
15.50	Leave dense undergrowth, enter heavy timber, bears NE. and SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked on brass cap, $\frac{1}{4}$ S 19 on N. half, S 30 on S. half, from which
	A cedar, 7 ins. diam., bears N. $42^{\circ}32'E.$ 44 lks. dist., marked $\frac{1}{4}$ S 19 BT.
	A cedar, 13 ins. diam., bears S. $39^{\circ}20'E.$ 58 lks. dist., marked $\frac{1}{4}$ S 30 BT.
80.00	The cor. of secs. 19-20-29. and 30.
	Land, rolling.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

Soil, gravelly loam, from 12 to 15 ins. deep, 2nd rate.

Subsoil, gravel.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

N.0°10'W., bet. secs. 19 and 20.

Gradual ascent over rolling land, through scattering timber, and dense undergrowth.

38.98 Wire fence bears E. and W..

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 on W. half, S 20 on E. half, from which

A cedar, 18 ins. diam., bears S.54°50'E., 97 lks. dist., marked $\frac{1}{4}$ S 20 BT.

No other trees within limits, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

52.50 Enter burnt and dead timber.

68.00 Leave timber.

78.35 Road between Monticello, Utah and Dolores, Colorado, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 17-18-19 and 20, marked on brass cap, T 33 S S 18 in NW.,
R 26 E S 17 in NE.,

S 20 in SE. and S 19 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, sandy loam from 12 to 18 ins. deep, 1st rate.

Subsoil, gravel.

Timber, live and dead scattering cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	
	September 23: At 7h.53m., a.m., l.m.t., I set off $37^{\circ}56'N.$ on lat.arc, $0^{\circ}14'N.$ on decl.arc, and determine a meridian with the solar at the cor.of secs.17-18-19 and 20. Thence I run $N.89^{\circ}49'W.$, on a random, line, bet.secs.18 and 19.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.02	Intersect W.bdy.of Tp., 5 lks.S. of the cor.of secs. 13-18-19 and 24, heretofore described. Thence I run $S.89^{\circ}47'E.$, on a true line, Bet.secs.18 and 19. Gradual descent over rolling land, through dense under- growth.
30.20	Enter scattering timber.
40.01	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 18 on N. half, S 19 on S.half, from which A pinon, 7 ins.diam., bears $S.22^{\circ}05'W.$, 21 lks.dist., marked $\frac{1}{4}$ S 19 BT. A pinon, 7 ins.diam., bears $N.79^{\circ}20'W.$, 12 lks.dist., marked $\frac{1}{4}$ S 18 BT.
78.35	Road from Monticello, Utah to Dolores, Colorado, bears NW.and SE.
80.02	The cor.of secs.17-18-19 and 20. Land, rolling. Soil, sandy loam from 12 to 18 ins.deep, 1st rate. Subsoil, gravel. Timber, scattering cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth on 80.02 chs.
	<hr/> $N.0^{\circ}01'E.$, bet.secs.17 and 18. Gradual ascent over rolling land, through dense uner- growth. 4.00 Enter scattering timber. 7.00 Leave timber.

SUBDIVISIONS OF T.35 S., R.26 E.

CHAINS	
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18' on W. half, S 17' on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
51.00	Enter scattering timber.
58.00	Leave timber.
78.50	Enter scattering timber.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 7-8-17 and 18, marked on brass cap T 33 S S 7' in NW., R 26 E S 8' in NE., S 17' in SE. and S 18' in SW. quadrant, from which A pinon, 8 ins. diam., bears N. $31^{\circ}40'$ E., 59 lks. dist., marked T 33 S R 26 E S 8' BT. A cedar, 15 ins. diam., bears S. $31^{\circ}20'$ E., 79 lks. dist., marked T 33 S R 26 E S 17' BT. A cedar, 7 ins. diam., bears S. $40^{\circ}05'$ W., 79 lks. dist., marked T 33 S R 26 E S 18' BT. A pinon, 12 ins. diam., bears N. $21^{\circ}50'$ W., 39 lks. dist., marked T 33 S R 26 E S 7' BT. Land, rolling. Soil, sandy loam, from 12 to 18 ins. deep, 1st rate. Subsoil, gravel. Timber, scattering cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth on 80.00 chs. September 23: At this cor. I set off $0^{\circ}09'$ N. on decl. arc, and at 11h. 53m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}57'$ N. N. $89^{\circ}47'$ W., on a random line, bet. secs. 7 and 18. Set temp. $\frac{1}{4}$ sec. cor. Intersect W. bdy. of Tp., 7 lks. S. of the cor. of secs. 7-12-13 and 18, heretofore described. Thence I run

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	S.89°44'E., on a true line, Bet. secs. 7 and 18. Gradual descent over rolling land, through dense undergrowth.
12.00	Enter scattering timber.
14.20	Wagon road, bears NE. and SW.
35.00	Leave timber.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 7' on N. half, S 18' on S. half, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
47.00	Enter scattering timber.
80.02	The cor. of secs. 7-8-17 and 18. Land, rolling. Soil, sandy loam, from 12 to 18 ins. deep, 1st. rate. Subsoil, gravel. Timber, scattering cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth on 80.02 chs.

N.0°02'W., bet. secs. 7 and 8.

3.00	Gradual ascent over rolling land, through scattering timber and dense undergrowth.
39.90	Leave timber.
40.00	Wagon road, bears NE. and SW.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 7' on W. half, S 8' on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
76.00	Enter scattering timber.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked on brass cap, T 33 S S 6 in NW.,

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

R 26 E S^v 5 in NE., .
 S 8^v in SE. and S 7^v in SW. quadrant, from which
 A cedar, 14 ins. diam., bears S. 51° 40' W., 131 lks.
 dist., marked T 33 S R 26 E S^v 7 BT.
 A cedar, 10 ins. diam., bears N. 83° 25' W., 158 lks.
 dist., marked T 33 S R 26 E S^v 6 BT.
 No other trees within limits, dig pits, 18x18x12 ins., in
 each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base,
 2 ft. high, W. of cor.
 Land, rolling.
 Soil, sandy loam, from 12 to 18 ins. deep, 1st. rate.
 Subsoil, gravel.
 Timber, scattering cedar and pinon.
 Undergrowth, sage brush.
 Land covered with dense undergrowth on 80.00 chs.

- N. 89° 44' W., on a random line, bet. secs. 6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect W. bdy. of Tp., 12 lks. S. of the cor. of secs.
 1-6-7 and 12, heretofore described.
 Thence I run.
 S. 89° 39' E., on a true line,
 Bet. secs. 6 and 7.
 Gradual descent over rolling land, through dense under-
 growth.
 39.99 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 6' on N.
 half, S 7' on S. half, dig pits, 18x18x12 ins., E. and W. of
 post, 3 ft. dist., and raise a mound of earth, 3½ ft. base,
 1½ ft. high, N. of cor.
 43.56 Road to East Canyon, bears NW. and SE.
 70.00 Enter scattering timber.
 79.98 The cor. of secs. 5-6-7 and 8.
 Land, rolling.
 Soil, sandy loam, 12 to 18 ins. deep, 1st. rate.
 Subsoil, gravel.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

Timber, scattering cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 79.98 chs.

September 23, 1911

September 29: For solar and latitude observation for this day, see pages 5 and 7 of Resurvey of the North Boundary of T.33 S., R.26 E.

From the cor. of secs. 5-6-7 and 8, I run

North on a random line, bet. secs. 5 and 6.

Set temp. $\frac{1}{4}$ sec. cor.

80.98 Intersect N.bdy. of Tp., 5 lks. E. of the re-established cor. of secs. 5-6-31 and 32, heretofore described.

Thence I run

S.0°02' E., on a true line,

Bet. secs. 5 and 6.

Descend over rolling land, through dense undergrowth and burnt and dead timber.

40.98 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 6' on W. half, S 5' on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

53.00 Leave dead timber, enter live scattering timber.

80.98 The cor. of secs. 5-6-7 and 8.

Land, rolling.

Soil, sandy from 12 to 18 ins. deep, 1st. rate.

Subsoil, gravel.

Timber, live and dead scattering cedar and pinons.

Undergrowth, sage brush.

Land covered with dense undergrowth on 80.98 chs.

September 29, 1911

Eben B Andrews
U.S. Transitman

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

Survey commenced September 21, 1911, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of secs. 4-5-32 and 33, heretofore described on the S.bdy. of Tp., in approximate latitude $37^{\circ}54'N.$, longitude $109^{\circ}07'W.$, I set off $37^{\circ}54'N.$ on lat.arc, $0^{\circ}53'N.$ on decl.arc, and at 3h.53m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of the cor.

At 7h.34m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs.N. of my station.

September 21, 1911

September 22: At 7 a.m., I lay off the azimuth of Polaris, $1^{\circ}29'$ to the west and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h.53m., a.m., l.m.t., I set off $37^{\circ}54'N.$ on lat.arc, $0^{\circ}37'N.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $0^{\circ}16''$ west and east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.

SUBDIVISIONS OF T. 33 S., R. 26 E.

CHAINS	m., is N. $15^{\circ}40'W.$, the angle thus determined gives the mag.decl. $15^{\circ}40'E.$ From the sec.cor., already described, I run N. $0^{\circ}10'W.$, bet.secs.32 and 33. Gradual ascent over rolling land, through scattering timber and dense undergrowth.
10.32	Enter heavy timber, bears NW.and SE.
40.00	Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{2}$ sec.cor., marked on brass cap, $\frac{1}{2} S 32$ on W. half, $S 33$ on E.half, from which A pinon, 6 ins.diam., bears N. $76^{\circ}00'E.$, 9 lks.dist., marked $\frac{1}{2} S 33$ BT.
	A pinon, 6 ins.diam., bears S. $63^{\circ}45'W.$, 47 lks.dist., marked $\frac{1}{2} S 32$ BT.
60.95	Leave timber, bears NW.and SE.
77.80	Enter heavy timber, bears NW.and SE.
80.00	Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.28-29-32 and 33, marked on brass cap, T 33 S S 29 in NW., R 26 E S 28 in NE., S 33 in SE.and S 32 in SW.quadrant, from which A pinon, 9 ins.diam., bears N. $65^{\circ}00'E.$, 24 lks.dist. marked T 33 S R 26 E S 28 BT.
	A pinon, 9 ins.diam., bears S. $36^{\circ}13'E.$, 53 lks.dist. marked T 33 S R 26 E S 33 BT.
	A pinon, 7 ins.diam., bears S. $46^{\circ}10'W.$, 42 lks.dist. marked T 33 S R 26 E S 32 BT.
	A pinon, 7 ins.diam., bears N. $35^{\circ}20'W.$, 11 lks.dist. marked T 33 S R 26 E S 29 BT.
	Land, rolling.
	Soil, rocky loam, from 12 to 18 ins.deep, 2nd.rate.
	Subsoil, gravel.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Land covered with dense undergrowth or heavily timbered land on 80.00 chs.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	
	West, on a random line, bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 29-30-31 and 32. Thence I run
	S. $89^{\circ}56' E.$, on a true line, Bet. secs. 29 and 32.
	Over rolling land, through heavy timber.
26.24	Top of knoll, 75 ft. high, on line. Leave timber, bears N. and S.
38.50	Enter heavy timber, bears N. and S.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 29$ on N. half, $S 32$ on S. half, from which
	A pinon, 11 ins. diam., bears N. $19^{\circ}09' W.$, 33 lks. dist., marked $\frac{1}{4} S 29$ BT.
	A pinon, 6 ins. diam., bears S. $58^{\circ}12' W.$, 46 lks. dist., marked $\frac{1}{4} S 32$ BT.
58.70	Leave timber, bears NW. and SE. Enter dense undergrowth.
76.80	Enter heavy timber, bears NW. and SE.
80.04	The cor. of secs. 28-29-32 and 33. Land, rolling. Soil, rocky loam, 2nd. rate, from 12 to 18 ins. deep. Subsoil, rocky. Timber, cedar and pinon. Land covered with dense undergrowth or heavily timbered on 80.04 chs.
	September 22, At this cor. I set off $0^{\circ}33' N.$ on decl. arc, and at 11h. 53m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}55' N.$
	N. $0^{\circ}05' W.$, bet. secs. 28 and 29.
40.00	Gradual ascent over rolling land, through heavy timber. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 29$ on W. half, $S 28$ on E. half, from which

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	A pinon, 11 ins. diam., bears N. $19^{\circ}09'W.$, 33 lks. dist., marked $\frac{1}{4}$ S 29 BT.
	A pinon, 6 ins. diam., bears S. $58^{\circ}12'E.$, 46 lks. dist., marked $\frac{1}{4}$ S 28 BT.
40.65	Leave timber, bears E. and W. Enter dense undergrowth.
45.70	Enter heavy timber, bears E. and W.
67.85	Leave timber, bears E. and W.
75.70	Enter heavy timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked on brass cap, T 33 S S 20 in NW., R 26 E S 21 in NE., S 28 in SE. and S 29 in SW. quadrant, from which A pinon, 10 ins. diam., bears N. $47^{\circ}30'E.$, 128 lks. dist., marked T 33 S R 26 E S 21 BT.
	A cedar, 9 ins. diam., bears S. $57^{\circ}30'E.$, 39 lks. dist., marked T 33 S R 26 E S 28 BT.
	A cedar, 13 ins. diam., bears S. $20^{\circ}W.$, 58 lks. dist., marked T 33 S R 26 E S 29 BT.
	A cedar, 11 ins. diam., bears N. $75^{\circ}28'W.$, 13 lks. dist., marked T 33 S R 26 E S 20 BT.
	Land, rolling.
	Soil, rocky loam, 2nd. rate from 12 to 18 ins. deep.
	Subsoil, rocky and gravel.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Heavily timbered land or land covered with dense undergrowth on 80.00 chs.
40.00	N. $89^{\circ}56'W.$, on a random line, bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor.
79.95	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 19-20-29 and 30. Thence I run S. $89^{\circ}58'E.$, on a true line, Bet. secs. 20. and 29.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	
	Gradual descent over rolling land, through scattering timber and dense undergrowth.
2.80	Enter heavy timber, bears N. and S.
39.97 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 20 on N. half, S 29 on S. half, from which A pinon, 20 ins diam., bears N. 45° 45' E., 29 lks. dist., marked $\frac{1}{4}$ S 20 BT. A pinon, 6 ins. diam., bears S. 31° 15' E., 7 lks. dist., marked $\frac{1}{4}$ S 29 BT.
79.95	The cor. of secs. 20-21-28 and 29. Land, rolling. Soil, rocky loam, 2nd. rate, from 12 to 18 ins. deep. Subsoil, rocky and gravel. Timber, cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth or heavily timbered land on 79.95 chs.
	September 22, 1911
	September 23: At 7h. 53m., a.m., l.m.t., I set off 37° 56' N. on lat. arc, 0° 14' N. on decl. arc, and determine a meridian with the solar at the cor. of secs. 20-21-28 and 29. Thence I run N. 0° 10' W., bet. secs. 20 and 21. Gradual ascent over rolling land, through heavy timber. Leave timber bears E. and W. Enter dense undergrowth. Set an iron post, 3 ft. long, 1 in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 20 on W. half, S 21 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Road between Dolores, Colorado and Monticello, Utah, bears NW. and SE.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	
66.50	Enter scattering timber.
80.00	<p>Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked on brass cap, T 33 S S 17 in NW.,</p> <p>R 26 E S 16 in NE.,</p> <p>S 21' in SE. and S 20' in SW. quadrant, from which</p> <p>A cedar, 18 ins. diam., bears N. 66°15' E., 255 lks. dist., marked T 33 S R 26 E S 16 BT.</p> <p>A pinon, 6 ins. diam., bears S. 31°10' E., 39 lks. dist., marked T 33 S R 26 E S 21 BT.</p> <p>A pinon, 8 ins. diam., bears S. 43°W., 41 lks. dist., marked T 33 S R 26 E S 20 BT.</p> <p>A pinon, 8 ins. diam., bears N. 51°30' W., 51 lks. dist., marked T 33 S R 26 E S 17 BT.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, from 12 to 18 ins. deep, 1st. rate on first 66.00 chs.; balance, rocky and thin soil on solid sandstone, 4th. rate.</p> <p>Subsoil, sandstone.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth; sage brush.</p> <p>Land covered with dense undergrowth or heavily timbered land on 80.00 chs.</p>
40.00	S. 89°58' W., on a random line, bet. secs. 17 and 20.
79.94	<p>Set temp. $\frac{1}{4}$ sec. cor.</p> <p>Intersect N. and S. line, 12 lks. S. of the cor. of secs. 17-18-19 and 20.</p> <p>Thence I run</p> <p>S. 89°57' E., on a true line,</p> <p>Bet. secs. 17 and 20.</p> <p>Gradual descent over rolling land, through scattering timber and dense undergrowth.</p>
6.40	Leave timber.
39.97	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 17 on N.

SUBDIVISIONS OF T.33 S.R.26 E.

CHAINS	
	half, S 20 on S.half, from which A lone cedar, 8 ins.diam., bears S.22°W.189 lks. dist., marked $\frac{1}{4}$ S 20 BT.dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,N.of cor.
40.31	Wire fence,bears N.and S.
65.15	Enter scattering timber,bears N.and S.
79.94	The cor. of secs. 16-17-20 and 21. Land,rolling. Soil,sandy loam, from 15 to 20 ins. deep,1st.rate, on first 45.00 chs balance, rocky and thin soil on solid sandstone. Timber, scattering pinon and cedar. Undergrowth, dense sage brush. Land covered with dense undergrowth,or covered with undergrowth and scattering timber on 79.94 chs.
	N.0°01'E.,betsecs.16 and 17. Gradual ascent over rolling land,through dense under- growth.
40.00	Set an iron post, 3 ft.long, 1 in.dia.26 ins. in the ground,for $\frac{1}{4}$ sec. cor.,marked on brass cap, $\frac{1}{4}$ S 17 on W. half,S 16 on E. half, from which A lone cedar, 8 ins.diam., bears S.7°W. 108 lks. dist., marked $\frac{1}{4}$ S 17 BT.,dig pits, 18x18x12 ins. N.and S.of post, 3 ft,dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
56.25	Enter scattering timber,bears E.and W.
80.00	Set an iron post, 3 ft.long, 2 ins.diam., 24 ins. in the ground,for cor.of secs.8-9-16 and 17,marked on brass cap T 33 S S 8 in NW., R 26 E S 9 in NE., S 16 in SE.and S 17 in SW.quadrant,from which A cedar, 12 ins.diam., bears N.56°E,49 lks.dist., marked T 33 S R 26 E S 9 BT. A pinon, 8 ins.diam., bears S.61°15'E.,82 lks. dist., marked T 33 S R 26 E S 16 BT.

SUBDIVISIONS OF T.33 S.R.26 N.

CHAINS

A pinon, 9 ins.diam., bears S.61°45'W., 128 lms.
dist., marked T 33 S R 26 E S 17 BT.

A pinon, 6 ins.diam., bears N.53°52'W., 42 lms.
dist., marked T 33 S R 26 E S 8 BT.

Land, rolling.

Soil, thin soil on solid sandstone. 4th.rate. first 25 chs.
balance, sandy loam, from 20 to 24 ins. deep, 1st.rate
with solid sandstone subsoil.

Timber, scattering pinon and cedar.

Undergrowth, dense sage brush.

Land covered with dense undergrowth or scattering timber
on 80.00 chs.

September 23: At this cor. I set off 0°09'N.on decl.arc,
and at 11h.53m., a.m., l.m.t., observe the sun on the
meridian, the resulting lat. is 37°57'N.

N.89°57'W., on a random line, bet.secs. 8 and 17.

40.00 Set temp. $\frac{1}{2}$ sec.cor.20.04 Intersect N.and S. line, 3 lms. N.of the cor. of secs.
7-8-17 and 18.

Thence I run

S.89°58'E., on a true line,

Bet.secs. 8 and 17.

Gradual descent over rolling land, through scattering
timber, and dense undergrowth.

3.40 Leave scattering timber, bears E.and W.

24.80 Entering scattering timber, bears E.and W.

39.27 Wire fence, bears N. and S.

40.02 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.ikn the
ground, for $\frac{1}{2}$ sec.cor., marked on brass cap, $\frac{1}{2}$ S 8 on N.
half, S 17 on S.half, from which

A cedar, 6 ins.diam., bears S.51°30'E., 51 lms.
dist., marked $\frac{1}{2}$ S 17 BT.

A cedar, 10 ins.diam., bears N.18°15'W., 21 lms.
dist., marked $\frac{1}{2}$ S 8 BT.

30.04 The cor. of secs. 8-9-16 and 17.

Land, rolling.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

Soil, sandy loam, from 20 to 24 ins. deep, 1st. rate, with a gravel subsoil.

Timber, scattering pinon and cedar.

Undergrowth, dense sage brush.

Land covered with dense undergrowth, or covered with scattering timber on 80.04 chs.

N. 0°02' W., bet. secs. 8 and 9.

Gradual rolling ascent through dense undergrowth and scattering timber.

37.40 Leave scattering timber, bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 8' on W. half, S 9' on E. half, from which

A cedar, 10 ins. diam., bears N. 65°45' E., 161 lks. dist., marked $\frac{1}{4}$ S 9' BT.

A cedar, 13 ins. diam., bears S 5°30' W. 267 lks. dist., marked $\frac{1}{4}$ S 8' BT.

63.44 Wagon road, from Summit Spring, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 4-5-8 and 9, marked on brass cap, T 33 S 5 in NW., E 26 E S 4 in NE., S 9' in SE. and S 8' in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of the cor.

Land, rolling.

Soil, gravelly loam, from 15 to 20 ins. deep, 2nd. rate, with a gravel subsoil,

Timber, scattering pinon and cedar, on 1st. 37.40 chs.

Undergrowth, dense sage brush.

Land covered with dense undergrowth or scattering timber on 80.00 chs.

N. 89°58' W., on a random line, bet. secs. 5 and 8.

40.00 Set temp., $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, 7 lks. N. of the cor. of secs.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINING

5-6-7 and 8.

Thence I run

N.89°59' E., on a true line,

Bet, secs. 5 and 8.

Gradual ascent over rolling land, through dense undergrowth

27.50 A line of posts set for wire fence, bears N.0°10'E.

36.20 Enter heavy timber, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 5' on N. half
S 8' on S. half, from whichA pinon, 8 ins. diam., bears N.51°30' W., 41 lks.
dist., marked $\frac{1}{4}$ S 5' BT.A pinon, 7 ins. diam., bears S.50°30' W., 51 lks.
dist., marked $\frac{1}{4}$ S 8' BT.

44.20 Leave heavy timber, bears NE. and SW.

50.45 Enter scattering timber, bears NW. and SE.

60.60 Pinon tree, 12 ins. diam., on line; mkd. 2 notches on E. & W.

61.60 Leave timber, bears NE. and SW.

74.85 Wash, 10 lks. wide, 3 ft. deep, course NE.

80.00 The cor. of secs. 4-5-8 and 9.

Land, rolling.

Soil, gravelly loam, from 15 to 20 ins. deep, 2nd. rate, with
a gravel subsoil.

Timber, pinon and cedar.

Undergrowth, dense sage brush.

Land covered with dense undergrowth, or covered with
heavy or scattering timber on 80.00 chs.

September 23, 1911


 U.S. Transitman

September 29: For solar and latitude observations for
this date, see pages 5 and 7 of Resurvey of the North
Boundary of T.33 S., R.26 E.

From the cor. of secs. 4-5-8 and 9, I run

North, in a random line, bet. secs. 4 and 5.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	
81.02	Intersect N.bdy.of Tp., 3 lks.W. of the re-established cor. of secs. 4-5-32 and 33, heretofore described. Thence I run S.0°01'W., on a true line, Bet. secs. 4 and 5. Gradual descent over rolling land, through scattering timber and dense undergrowth.
3.50	Enter burnt and dead timber.
36.00	Enter live scattering timber.
41.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5' on W. half, S 4' on E. half, from which A cedar, 5 ins. diam., bears N.34°35'W., 5 lks. dist., marked $\frac{1}{4}$ S 5' BT. A pinon, 12 ins. diam., bears S.42°10'E., 38 lks. dist., marked $\frac{1}{4}$ S 4' BT.
57.00	Wagon Road bears NW. and SE.
77.75	Wash, 10 lks. wide, 3 ft. deep, course NE.
81.02	The cor. of secs. 4-5-8 and 9. Land, rolling. Soil, gravelly loam from 12 to 18 ins. deep, 2nd. rate. Subsoil, gravel. Timber, live and dead scattering cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth on 81.02 chs.

September 29, 1911

	September 25: At 7h.52m., a.m., l.m.t., I set off 37°54'N. on lat.arc, 0°38'S. on decl.arc, and determine a meridian with the solar at the re-established cor. of secs. 3-4-33 and 34, heretofore described, on the S.bdy. of Tp. Thence I run N.0°09'W., bet. secs. 33 and 34. Gradual ascent over rolling land, through heavy timber. Leave heavy timber, bears E. and W. Enter scattering timber and dense undergrowth.
4.00	

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	
40.00	<p>Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 on W. half, S 34 on E. half, from which</p> <p>A pinon, 6 ins. diam., bears N. $69^{\circ}40'$ W. 66 lks. dist., marked $\frac{1}{4}$ S 33 BT.</p> <p>A pinon, 24 ins. diam., bears N. $29^{\circ}25'$ E., 84 lks. dist., marked $\frac{1}{4}$ S 34 BT.</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 27-28-33 and 34, marked on brass cap, T 33 S S 28 in NW., R 26 E S 27 in NE., S 34 in SE. and S 33 in SW. quadrant, from which</p> <p>A cedar, 7 ins. diam., bears N. $81^{\circ}26'$ E., 34 lks. dist., marked T 33 S R 26 E S 27 BT.</p> <p>A pinon, 8 ins. diam., bears S. $11^{\circ}50'$ E., 101 lks. dist., marked T 33 S R 26 E S 34 BT.</p> <p>A pinon, 10 ins. diam., bears S. $40^{\circ}30'$ W., 102 lks. dist., marked T 33 S R 26 E S 33 BT.</p> <p>A cedar, 5 ins. diam., bears N. $16^{\circ}25'$ W., 239 lks. dist., marked T 33 S R 26 E S 28 BT.</p> <p>Land, rolling.</p> <p>Soil, rocky and sandy loam, from 4 to 8 ins. deep, 3rd. rate.</p> <p>Subsoil, solid sandstone.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth, sage brush.</p> <p>Land covered with dense undergrowth or heavily timbered land on 80.00 chs.</p> <hr/> <p>West, on a random line, bet. secs. 28 and 33.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	<p>Intersect N. and S. line, 5 lks. N. of the cor. of secs. 28-29-32 and 33.</p> <p>Thence I run</p> <p>N. $89^{\circ}58'$ E., on a true line,</p> <p>Bet. secs. 28 and 33.</p> <p>Descend over rolling land, through heavy timber.</p>

SUBDIVISIONS OF T.33 S., R. 26 E.

CHAINS	
6.00	Leave heavy timber, bears N. and S.
	Enter scattering timber and dense undergrowth.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 on N. half, S 33 on S. half, from which
	A cedar, 11 ins. diam., bears S. $60^{\circ}10'W.$, 24 lks. dist., marked $\frac{1}{4}$ S 33 BT..
	A cedar, 8 ins. diam., bears N. $42^{\circ}05'E.$, 40 lks. dist., marked $\frac{1}{4}$ S 28 BT.
62.00	Leave timber, bears N. and S.
68.00	Enter timber, bears N. and S.
80.02	The cor. of secs. 27-28-33 and 34.
	Land, rolling.
	Soil, rocky loam, from 8 to 15 ins. deep, 2nd. rate.
	Subsoil, solid sandstone.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Land covered with dense undergrowth or heavily timbered land on 80.02 chs.

N. $0^{\circ}04'W.$, bet. secs. 27 and 28.

Ascend over rolling land, through scattering timber and dense undergrowth.

4.00	Leave timber.
13.65	Road between Monticello, Utah and Dolores, Colorado, bears NW. and SE.
38.00	Enter scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 on W. half, S 27 on E. half, from which
	A pinon, 6 ins. diam., bears S. $54^{\circ}45'E.$, 263 lks. dist., marked $\frac{1}{4}$ S 27 BT..
	A pinon, 7 ins. diam., bears S. $28^{\circ}55'W.$, 48 lks. dist., marked $\frac{1}{4}$ S 28 BT.
46.14	Wire fence bears N. $72^{\circ}30'E.$ and S. $72^{\circ}30'W.$
	Leave timber.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

- 80.00 Set an iron post, 3 ft. long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.21-22-27 and 28,marked on brass cap,T 33 S S 21 in NW.,
R 26 E S 22 in NE.,
S 27 in SE.and S 28 in SW.quadrant,dig pits,18x18x12 ins.in each sec., $5\frac{1}{2}$ ft.dist.,and raise a mound of earth,4 ft.base,2 ft.high,W.of cor..
Land,rolling.
Soil,sandy loam,from 12 to 18 ins.deep,1st.rate.
Subsoil,gravel.
Timber,cedar and pinon.
Undergrowth,sage brush.
Land covered with dense undergrowth on 80.00 chs.
September 25: At this cor.I set off $0^{\circ}38'$ S.on decl.arc, and at 11h.52m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is $37^{\circ}56'N.$
-
- S.89°58'W.,on a random line,betsecs.21 and 28.
40.00 Set temm. $\frac{1}{2}$ sec.cor.
79.96 Intersect N.and S.line,3 lks.S.of the cor.of secs. 20-21 28 and 29..
Thence I run
N.89°59'E.,on a true line,
Bet.secs.21 and 28.
Gradual descent over rolling land,through scattering timber and dense undergrowth.
16.00 Road between Monticello,Utah and Dolores,Colorado,
28.80 bears NW.and SE.
Fence bears N.& S.
33.20 Leave timber.
39.98 Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{4}$ S 21 on N.half,S 28 on S.half,dig pits,18x18x12 ins.,E.and W.of 3 ft.dist.and raise a mound.of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high, N.of cor.
73.50 Enter scattering timber.
79.96 The cor.of secs.21-22-27 and 28.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

Land, rolling.
 Soil, sandy loam, from 12 to 14 ins. deep, 1st. rate.
 Subsoil, gravel.
 Timber, cedar and pinon.
 Undergrowth, sage brush.
 Land covered with dense undergrowth on 79.96 chs.

N.0°09'W., bet. secs. 21 and 22.

Gradual ascent over rolling land, through scattering timber and dense undergrowth.

14.50 Wash, 25 lks. wide, 10 ft. deep, of Piute Draw, course SE.

17.70 Wire fence, bears E. and W.

21.40 Road, bears NW. and SE.

24.93 A log cabin bears S.79°30'W., 10.50 chs., claimant unknown.

Piute Spring bears N.75°30'W. 27.00 lchs. dist.

36.00 Leave timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 21^v on W. half, S 22 on E. half, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base; $1\frac{1}{2}$ ft. high, W. of cor.

51.00 Enter scattering timber.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 15-16-21 and 22, marked on brass cap, T 33 S S 16^v in NW.,
 R 26 E S 15 in NE.,
 S 22^v in SE. and S 21^v in SW. quadrant, from which

A cedar, 7 ins. diam., bears N.82°50'E., 113 lks. dist.,
 marked T 33 S R 26 E S 15 BT.

A pinon, 8 ins. diam., bears S.5°50'E., 188 lks. dist.,
 marked T 33 S R 26 E S 22 BT.

A pinon, 10 ins. diam., bears S.3°30'W., 202 lks. dist.,
 marked T 33 S R 26 E S 21 BT.

A pinon, 8 ins. diam., bears N.0°45'W., 313 lks. dist.,
 marked T 33 S R 26 E S 16 BT.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	<p>Land rolling.</p> <p>Soil, rocky loam from 12 to 15 ins. deep, 2nd. rate.</p> <p>Subsoil, gravel.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth, sage brush.</p> <p>Land covered with dense undergrowth on 80.00 chs.</p> <hr/>
40.00	<p>S.89°59'W., on a random line, bet. secs. 16 and 21.</p> <p>Set temp. $\frac{1}{4}$ sec. cor.</p>
79.92	<p>Intersect the cor. of secs. 16-17-20 and 21.</p> <p>Thence I run</p> <p style="padding-left: 40px;">N.89°59'E., on a trueline,</p> <p style="padding-left: 40px;">Bet. secs. 16 and 21.</p> <p>Gradual descent over rolling land, through scattering timber and dense undergrowth.</p>
18.65	<p>Wagon road bears NW. and SE.</p>
39.96	<p>Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 on N. half, S 21 on S. half, from which</p> <p style="padding-left: 40px;">A cedar, 24 ins. diam., bears S.2°50'E., 55 lks. dist., marked $\frac{1}{4}$ S 21 BT.</p> <p style="padding-left: 40px;">A pinon, 14 ins. diam., bears N.32°E., 124 lks. dist., marked $\frac{1}{4}$ S 16 BT.</p>
79.92	<p>The cor. of secs. 15-16-21 and 22.</p> <p>Land, rolling.</p> <p>Soil, rocky loam from 12 to 15 ins. deep, 2nd. rate.</p> <p>Subsoil, gravel.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth, sage brush.</p> <p>Land covered with dense undergrowth on 79.92 chs.</p>
	<p>September 25, 1911</p> <hr/> <p>September 26: At 7h.52m., a.m., 1.m.t., I set off 37°56'N. on lat.arc, 0°56'N. on decl.arc, and determine a meridian with the solar at the cor. of secs. 15-16-21 and 22.</p> <p>Thence I run</p>

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	N.0°02'E., bet. secs. 15 and 16. Gradual ascent over rolling land, through scattering timber, and dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 on W. half, S 15 on E. half, from which A cedar, 8 ins. diam., bears N.34°05'E., 37 lks. dist., marked $\frac{1}{4}$ S 15 BT. A pinon, 8 ins. diam., bears S.63°10'W., 20 lks. dist., marked $\frac{1}{4}$ S 16 BT.
72.00	Leave scattering timber, bears E. and W., enter burned timber.
80.00	Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked on brass cap, T 33 S S 9 in NW., R 26 E S 10 in NE., S 15 in SE. and S 16 in SW. quadrant, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, rocky loam, from 10 to 15 ins. deep, 2nd. rate subsoil gravel. Timber, burned and scattering pinon and cedar. Undergrowth, dense sage brush. Land covered with dense undergrowth on 80.00 chs.
40.00	S.89°59' W. on a random line, bet. secs. 9 and 16. Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect the N. and S. line, 3 lks. S. of the cor. of secs. 8-9-16 and 17. Thence I run East on a true line, Bet. secs. 9 and 16.
31.95	Over rolling land, through dense undergrowth and scattering timber.
39.99	Wagon road, bears NE. and SW. Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9' on N. half, S 16' on S. half, from which

A pinon, 9 ins. diam., bears N. $49^{\circ}10'$ E., 93 lks. dist., marked $\frac{1}{4}$ S 9' BT.

A pinon, 7 ins. diam., bears S. $52^{\circ}50'$ E., 109 lks. dist., marked $\frac{1}{2}$ S 16' BT.

79.98 The cor. of secs. 9-10-15 and 16.

Land, rolling.

Soil, rocky loam, 15 to 20 ins. deep, 2nd. rate, with gravel subsoil.

Timber, scattering pinon and cedars.

Undergrowth, dense sage brush.

Land covered with dense undergrowth on 79.98 chs.

September 26: At this cor. I set off 1°01' S. on decl. arc, and at 11h.52m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}57'$ N.

6.00 N. 0°01' W., bet. secs. 9 and 10.

Gradual ascent over rolling land, through dense undergrowth, and burned timber. Cor.

Enter scattering timber, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9' on W. half, S 10' on E. half, from which

A pinon, 8 ins. diam., bears S. $29^{\circ}50'$ E., 56 lks. dist., marked $\frac{1}{4}$ S 10' BT.

A pinon, 6 ins. diam., bears N. $24^{\circ}50'$ W., 108 lks. dist., marked $\frac{1}{4}$ S 9' BT.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 3-4-9 and 10. marked on brass cap

T 33 S 8 4 in NW.,

R 26 E 8 3 in NE.,

S 10 in SE. and S 9 in SW. quadrant, from which

A pinon, 8 ins. diam., bears N. $82^{\circ}50'$ E., 11 lks. dist., marked T 33 S R 26 E S 3 BT.

A pinon, 13 ins. diam., bears S. $41^{\circ}E.$, 86 lks. dist., marked T 33 S R 26 E S 10 BT.

SUBDIVISIONS OF T. 33 S., R. 26 E.

CHAINS

A pinon, 9 ins. diam., bears S. $50^{\circ}50'W.$, 149 lks.
dist., marked T 33 S R 26 E S 19 BT.

A pinon, 7 ins. diam., bears N. $38^{\circ}35'W.$, 32 lks.
dist., marked T 33 S R 26 E S 4 BT.

Land, rolling.

Soil, rocky loam, from 15 to 20 ins. deep. 2nd. rate, subsoil
solid sandstone.

Timber, scattering pinon and cedar.

Undergrowth, dense sage brush.

Land covered with dense undergrowth on 80.00 chs.

West, on a random line, bet. secs. 4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.92 Intersect N. and S. line, 10 lks. S. of the cor. of secs.
4-5-8 and 9.

Thence I run

S. $89^{\circ}56'E.$, on a true line,

Bet, secs. 4 and 9.

Gradual descent, over rolling land, through dense undergrowth.

11.70 Wagon road, bears NW. and SE.

13.00 Wash, 10 lks. wide, 4 ft. deep, course NW. into Summit Canyon.

27.00 Enter scattering timber, bears NE. and SW.

39.96 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 4 on N.
half, S 9 on S half, from which

A pinon, 12 ins. diam., bears S. $42^{\circ}15'E.$, 38 lks.
dist., marked $\frac{1}{4}$ S 9 BT.

A cedar, 5 ins. diam., bears N. $34^{\circ}35'W.$, 5 lks.,
dist., marked $\frac{1}{4}$ S 4 BT.

73.60 Ravine, course N. into Summit Canyon.

79.92 The cor. of secs. 3-4-9 and 10.

Land, rolling.

Soil, solid sandstone, covered with a thin layer of soil
8 to 10 ins. deep.

Timber, scattering pinon and cedar.

Undergrowth, dense sage brush.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

Land covered with dense undergrowth on 79.92 chs.

September 26, 1911

Eben B Andrews
U.S. Transitman.

40.00

September 29: for solar and lat. observations for this date, see pages 41 and 42 respectively.

From the cor. of secs. 3-4-9 and 10, I run N.0°01' E. on a random line, bet. secs. 3 and 4.

81.20

Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. bdy. of Tp. 14 lks. W. of the re-establish cor. of secs. 3-4-33 and 34, heretofore described.

Thence I run

S.0°07' W., on a true line,

Bet. secs. 3 and 4.

Gradual descent, over rolling land, throung dense undergrowth.

13.45

Top of sandstone ledges, bears NE. and SW., abrupt descent SE. slope of Summit Canyon.

32.50

Foot of abrupt descent, thence over level bottom of Summit Canyon.

34.20

Wash, in bottom of Summit Canyon, 25 lks. wide, 20 ft. deep, course NE.

39.10

Begin abrupt ascent, enter heavy cedar and pinon, bears NE. and SW.

41.20

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S $\frac{3}{4}$ on W. half, S 3 on E. half, from which

A cedar, 7 ins. diam., bears S.43°30'E., 42 lks. dist., marked $\frac{1}{2}$ S 3 BT.

A pinon, 7 ins. diam., bears N.65°30'W., 30 lks. dist., marked $\frac{1}{4}$ S 4 BT.

42.30

Spur, projects NW.

Gradual descent,

61.45

Bottom of ravine, 75 ft. deep, course NW.

Abrupt ascent.

66.18

Top of sandstone ledges, bears NW. and SE.

SUBDIVISIONS OF T. 33 S., R. 26 E.

CHAINS

Gradual ascent over rolling land.
 81.20 The cor. of secs. 3-4-9 and 10.
 Land, rolling and mountainous.
 Soil, rocky loam, from 15 to 20 ins. deep, on first 13.45
 and last 15 chs. 3rd. rate, with solid sandstone sub-
 soil. bottom of canyon, soil, sandy loam, from 3 to 4
 ft. deep, 1st. rate; balance broken sandstone ledges
 and rocky, 4th. rate.
 Timber, cedar and pinon.
 Undergrowth, dense sage brush.
 Land, covered with heavy timber, or dense undergrowth on
 81.20 chs.

September 29, 1911.

September 25: At 7h 52m., a.m., l.m.t., I set off $37^{\circ}54'N.$
 on lat. arc, $0^{\circ}33'S.$ on decl. arc, and determine a meridian
 with the solar at the re-established cor. of secs. 2-3-34
 and 35, heretofore described on S. Bdy. of Tp.

Thence I run

N. $0^{\circ}08'W.$, bet. secs. 34 and 35.

Gradual ascent, over rolling land, through dense under-
 growth.

- 8.30 Enter scattering timber, bears NE. and SW.
 12.90 Telephone line, from Monticello to Dolores, bears E. and W.
 21.05 Road to Shearing pens, bears NW. and SE.
 30.00 Shearing pens, bear 2 chs. W.
 32.25 Leave scattering timber, bears NW. and SE.
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2} S 34'$ on W.
 half, $S 35'$ on E. half, dig pits, 18x18x12 ins., N. and S. of
 post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.
 49.70 Wagon road from Monticello to Dolores, bears NW. and SE.
 55.90 Abrupt descent over sandstone ledges, bears NW. and SE.
 58.16 Piute ~~springs~~ Draw, 30 ft. deep, course SE.
 Abrupt ascent.
 61.10 Top of abrupt ascent, sandstone ledges, bears NW. and SE.
 Gradual ascent over rolling land.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	
67.05	Road to Piute Spring,bears NW.and SE.
80.00	Set an iron post,3 ft.long,2 ins.dia.,24 ins in the ground,for cor. of secs.26-27-34 and 35,marked on brass cap,T 33 S S 27 in NW., R 26 E S 26 in NE., S 35 in SE.and S 34 in SW.quadrant,from which 2 lone trees,A pinon,5 ins.diam.,bears S.44°50'W.,75 lks dist.,marked T 33 S R 26 E S 34 BT. A pinon,6 ins.diam.,bears N.25°W.,53 lks. dist.,marked T 33 S R 26 E S 27 BT.,dig pit 18x18x18 ins.in each sec.5½ ft.dist,raise a mound of earth 4 ft. base,2 ft. high,W. of cor. Land,rolling. Soil,rocky loam,15 to 20 ins. deep,3 rd.rate,with gravel subsoil.on first 55.60 shs;balance rocky and sandstone ledges,covered with thin layer of soil,on solid sandstone. Timber, pinon and cedar. Undergrowth, dense sage brush. Land covered with dense undergrowth on 80.00 chs.
40.00	West on a random line,betsecs.27 and 34. Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N.and S. line,6 lks. S.of the cor. of secs. 27-28-33 and 34. Thence I run S.89°57'E.on a true line, Bet.secs.27 and 34.
4.35	Gradual descent through dense undergrowth and scattering timber,over rolling,land.
28.56	Leave timber. Road between Dolores,Colorado and Monticello,Utah,bears NW.and SE.
39.98	Set an iron post,3 ft.long,1 in.dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked on brass cap, $\frac{1}{2}$ S 27 on N. half,S 34 on S.half,dig pits,18x18x12 ins.,E.and W.of

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, N. of cor.

56.25 Wash, 25 lks. wide, 5 ft. deep, of Piute Draw, course SE.

71.50 Road, bears NW. and SE.

79.96 The cor. of secs. 26-27-34 and 35.

Land, rolling.

Soil, rocky, 3rd. rate.

Subsoil, gravel and solid sandstone.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land covered with dense undergrowth on 79.96 chs.

East, on a true line,

Bet. secs. 26 and 35.

Gradual descent over rolling land, through dense undergrowth.

11.67 Intersect Utah-Colorado State Boundary line at N. $0^{\circ}10' E.$,
30.92 chs. from the 60 Mile Cor., heretofore described.
Set an iron post, 3 ft. long, 2 ins. dia. 24 ins. in the
ground for closing cor. of secs. 26 and 35, marked on brass
cap CC C on E. half, U on W. half,

T 33 S S 26 in NW. and

R 26 E S 35 in SW. quadrant, dig pits, 24x18x12 ins.,
crosswise on each line, N. and S., 3 ft. and W. of post, 7 ft.
dist., and raise a mound of earth, 4 ft. base, 2 ft. high,
W. of cor.

Land, rolling.

Soil, sandy and rocky loam, 2nd. rate from 12 to 15 ins. deep.

Subsoil, gravel.

No timber.

Undergrowth, sage brush.

Land covered with dense undergrowth on 11.67 chs.

September 25: At this cor. I set off $0^{\circ}37' S.$ on decl. arc,
and at 11h.52m., a.m., l.m.t., observe the sun on the
meridian, the resulting lat. is $37^{\circ}55' N.$

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	N. $0^{\circ}03'W.$, bet. secs. 26 and 27. Gradual ascent over rolling land, through dense undergrowth.
20.17	Enter heavy timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap. $\frac{1}{4} S 27$ on W. half, S 26 on E. half, from which A cedar, 6 ins. diam., bears N. $44^{\circ}30' E.$, 15 lks. dist., marked $\frac{1}{4} S 26$ BT. A cedar, 12 ins. diam., bears S. $22^{\circ}30' W.$, 33 lks. dist., marked $\frac{1}{4} S 27$ BT.
69.75	Leave heavy timber, bears NW. and SE. enter dense undergrowth.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 22-23-26 and 27, marked on brass cap, T 33 S S 22 in NW., R 26 E S 23 in NE., S 26 in SE. and S 27 in SW. quadrant, dig. pits, 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling. Soil, solid sandstone covered with thin layer of soil. Timber, cedar and pinon. Undergrowth, dense sage brush. Land covered with heavy timber or dense undergrowth on 80.00 chs.
40.00	N. $89^{\circ}57'W.$, on a random line, bet. secs. 22 and 27. Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 21-22-27 and 28. Thence I run East on a true line, Bet. secs. 22 and 27!
4.00	Gradual ascent over rolling land, through dense undergrowth. Wash, 30 riks wide, 12 ft. deep, of Piute Draw, course SE.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

- 6.50 Enter ~~xxxxx~~ timber, bears N. and S.
- 32.74 Brush, fence, bears N. and S.
- 33.35 Road to Piute Spring, bears NW. and SE.
- 40.04 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 22 on N. half, S 27 on S. half, from which
 A pinon, 8 ins. diam., bears N. $20^{\circ}30' E.$, 62 lks.
 dist., marked $\frac{1}{4}$ S 22 BT.
 A pinon, 7 ins. diam., bears S $52^{\circ}15' E.$, 61 lks.
 dist., marked $\frac{1}{4}$ S 27 BT.
- 59.50 Leave scattering timber, bears NW. and SE.
- 80.08 The cor. of secs. 22-23-26 and 27.
 Land, rolling.
 Soil, rocky loam, from 10 to 15 ins deep, 2nd. rate with solid sandstone subsoil.
 Timber, pinon and cedar.
 Undergrowth, dense sage brush.
 Land covered with dense undergrowth, or covered with timber on 80.08 chs.
-
- East, on a true line,
 Bet. secs. 23 and 26.
 Gradual ascent over rolling land, through dense undergrowth, and scattering timber.
- 11.97 Intersect Utah-Colorado State Boundary line at S. $0^{\circ}10' W.$
 50.09 chs. from the 62' Mile Cor., heretofore described.
 Set an iron post, 3 ft. long, 2 ins. dia. $\frac{3}{4}$ ins. in the ground for closing cor. of secs. 23 and 26, marked on brass cap, CC C on E. half, U on W. half,
 T 33 S S 23 in NW., and
 R 26 E S 26 in SW. quadrant, from which
 A pinon, 7 ins. diam., bears S. $27^{\circ}30' W.$, 52 lks.
 dist., marked T 33 S R 26 E S 26 BT.
 A pinon, 10 ins. diam., bears N. $49^{\circ}W..89$ lks.
 dist., marked T 33 S R 26 E S 23 BT.
 Land, rolling.
 Soil, rocky loam, 15 to 20 ins. deep, 2nd. rate, subsoil solid

CHAINS

sandstone.

Land covered with dense undergrowth on 11.97 chs.

September 25, 1911.

September 26: AT 7h. 52m., a.m., l.m.t., I set off $37^{\circ}56'N.$
on lat.arc, $0^{\circ}56'S.$ on decl.arc, and determined a meridian
with the solar at the cor.of secs. 22-23-26 and 27.

Thence I run

$N.0^{\circ}08'W.$, bet.secs. 22 and 23.

Gradual ascent over rolling land, through dense under-growth and scattering timber.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 22$ on W. half, $S 23$ on E.half, from which

A cedar, 10 ins.diam., bears $S.36^{\circ}37'E.$, 165 lks.
dist., marked $\frac{1}{4} S 23$ BT.

A cedar, 7 ins.diam., bears $S.77^{\circ}W.$, 228 lks.dist.,
marked $\frac{1}{4} S 22$ BT.

80.00 Set an iron post, 3 ft.long, 2 ins.diam., 24 ins.in the ground, for cor.of secs. 14-15-22 and 23, marked on brass cap, T 33 S S 15 in NW.,
R 26 E S 14 in NE.,
S 23 in SE.and S 22 in SW,quadrant, from which

A cedar. 15 ins.diam., bears $N.79^{\circ}45'E.$, 184 lks.
dist., marked T 33 S R 26 E S 14 BT.

A pinon, 7 ins.diam., bears $S.87^{\circ}45'E.$, 164 lks.
dist., marked T 33 S R 26 E S 23 BT.

A cedar, 8 ins.diam., bears $S.79^{\circ}30'W.$, 49 lks.
dist., marked T 33 S R 26 E S 22 BT.

A pinon, 9 ins.diam., bears $N.83^{\circ}10'W.$, 41 lks.
dist., marked T 33 S R 26 E S 15 BT.

Land, rolling.

Soil, rocky loam, 20 to 24 ins.deep, 3rd.rate, with gravel
subsoil.

Timber, scattering pinon and cedar.

Undergrowth, dense sage brush.

Land covered with dense undergrowth on 80.00 chs.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINES

West on a random line, bet. secs. 15 and 22.

40.00 Set temp^r sec. cor.

80.02 Intersect N and S. line, 7 lks. S. of the cor. of secs. 15-16-21 and 22.

Thence I run

S.89°57' E., on a true line,

Bet. secs. 15 and 22.

Gradual rolling descent over rolling land, through scattering timber and dense undergrowth,

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 on N. half, S 22 on S. half, from which

A pinon, 10 ins. diam., bears S.70°E.. 180 lks.

dist., marked $\frac{1}{4}$ S 22 BT.

A cedar, 8 ins. diam., bears N.81°45'W., 116 lks.

dist., marked $\frac{1}{4}$ S 15 BT.

80.00 The cor. of secs. 14-15-22 and 23.

Land, rolling.

Soil, rocky loam, from 15 to 20 ins., deep, 2nd. rate with a gravel subsoil.

Timber, scattering pinon and cedar.

Undergrowth, dense sage brush

Land covered with dense undergrowths on 80.02 chs.

East on a true line,

Bet. secs. 14 and 23.

Gradual descent over rolling land, through dense undergrowth and scattering timber.

12.02 Intersect Utah-Colorado State Boundary line at North, 29.89 chs. from the 62¹/2 Mile Cor., heretofore described.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the closing cor. of secs. 14 and 23, marked on brass cap, CC C on E. half, U on W. half,

T 33 S S 14 in NW. and

R 26 E. S 23 in SW. quadrant, from which

A pinon, 6 ins. diam., bears S.63° W., 55 lks. dist., marked T 33 S R 26 E S 23 BT.

SUBDIVISIONS OF T. 33 S., R. 26 E.

CHAINS

A pinon, 5 ins. diam., bears N. $49^{\circ}37'W.$, 33 lks.
dist., marked T 33 S R 26 E S 14 BT.

Land, rolling.

Soil, rocky loam, from 15 to 20 ins. deep, 2nd. rate with
gravel subsoil.

Timber, scattering pinon and cedar.

Undergrowth, dense sage brush.

Land covered with dense undergrowth on 12.02 chs.

September 26: At this cor. I set off 1°01' S. on the decl.
arc, and at 11h. 52m. amm., l.m.t., observe the sun on the
meridian, the resulting lat. is $37^{\circ}56'N.$

N. $0^{\circ}03'E.$, bet. secs. 14 and 15.

Gradual ascent over rolling land, through dense under-
growth and scattering timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 on W.
half, S 14' on E. half, from which

A pinon, 7 ins. diam., bears N. $75^{\circ}30'E.$, 221 lks.
dist., marked $\frac{1}{4}$ S 14 BT.

A pinon, 8 ins. diam., bears N. $22^{\circ}W.$, 133 lks. dist.,
marked $\frac{1}{4}$ S 15 BT.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground
for cor. of secs. 10-11-14 and 15, marked on brass cap,
T 33 S S 10 in NW.,
R 26 E S 11 in NE.,
S 14' in SE. and S 15' in SW. quadrant, from which

A pinon, 8 ins. diam., bears N. $49^{\circ}30'E.$, 221 lks.
dist., marked T 33 S R 26 E S 11 BT.

A cedar, 14 ins. diam., bears S. $85^{\circ}E.$, 110 lks.
dist., marked T 33 S R 26 E S 14 BT.

A cedar, 6 ins. diam., bears S. $25^{\circ}15'W.$, 255 lks.
dist., marked T 33 S R 26 E S 15 BT.

A cedar, 4 ins. diam., bears N. $11^{\circ}15'W.$, 195 lks.
dist., marked T 33 S R 26 E S 10 BT.

Land, rolling.

Soil, rocky loam, from 15 to 20 ins. deep, 2nd. rate, with

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	gravel subsoil. Timber, scattering pinon and cedar. Undergrowth, dense sage brush. Land covered with dense undergrowth on the 80.00 chs.
40.00	N.89°57'W., on a random line, bet secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 14 lks N. of the cor. of secs. 9-10-15 and 16. Then set I run N.89°57'E., on a true line, Bet. secs. 10 and 15. Gradual ascent over rolling land, through dense undergrowth and scattering timber. Set an iron post, 3 ft. long. 1 in. dia., 26 ins. in the ground. for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 on N. half, S 15 on S half, from which
40.01	A pinon, 5 ins. diam., bears S.25°45'E., 120 lks. dist., marked $\frac{1}{4}$ S 15 BT. A pinon, 5 ins. diam., bears N.29°W., 47 lks. dist., marked $\frac{1}{4}$ S 10 BT.
80.02	The cor. of secs. 10-11-14 and 15. Land, rolling. Soil, rocky loam, from 10 to 15 ins deep, 3rd. rate, with a gravel subsoil. Timber, scattering pinon and cedar. Undergrowth, dense sage brush. Land covered with dense undergrowth on 80.02 chs.
11.98	East on a true line, Bet. secs. 11 and 14. Gradual ascent over rolling land, through dense undergrowth and scattering timber. Intersect the Utah-Colorado State line. at N.0°06'E. 29.31 chs. from the 63 Mile Cor., heretofore described. Set an iron post, 3 ft. long, 2 ins. diam., 24 ins in the ground, for closing cor. of secs. 11 and 14, marked on brass

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	<p>cap, CC C on E.half, U.on W.half, T 33 S S 11 in NW., R 26 E S 14 in SW.quadrant, from which A pinon, 7 ins.diam., bears N.$71^{\circ}45'W.$, 23 lks. dist., marked T 33 S R 26 E S 11 BT. no other trees within limits, dig pits, 24x18x12 ins., crosswise on each line, N. and S., 3 ft, and W.of post, 7 ft.dist., and raise a mound of earth, 4 ft.base, 2 ft. high, W.of cor. Land, rolling. Soil, rocky loam, from 10 to 15 ins.deep. 3rd.rate, with gravel subsoil. Timber, scattering cedar and pinon. Undergrowth, sage brush dense. Land covered with dense undergrowth on 11.98 ehs.</p>
	September 26, 1911.
40.00	<p>September 28: At 7h.51m., a.m., 1.m.t., I set off $37^{\circ}57'N.$ on lat.arc, $1^{\circ}45'S.$ on decl.arc, and determined a meridian with the solar at the cor. of secs. 10-11-14 and 15. Thence I run North, bet, secs. 10 and 11. Gradual ascent over rolling land, through dense under- growth, and a scattering timber. Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4} S 10$ on W. half, S 11 on E.half, from which A pinon, 8 ins.diam., bears N.$50^{\circ}15'E.$, 121 lks. dist., marked $\frac{1}{4} S 11$ BT. A cedar, 6 ins.diam., bears S.$61^{\circ}30'W.$, 92 lks. dist., marked $\frac{1}{4} S 10$ BT.</p>
80.00	<p>Set an iron post, 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs. 3-3-10 and 11, marked on brass cap T 33 S S 3 in NW., R 26 E S 2 in NE., S 11 in SE. and S 10 in SW.quadrant, from which A pinon, 8 ins.diam., bears N.$40^{\circ}30'E.$, 151 lks. dist., marked T 33 S R 26 E S 2 BT.</p>

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS

A pinon, 10 ins. diam., bears S. $22^{\circ}E.$, 99 lks.
dist., marked T 33 S R 26 E S 11 BT.

A cedar, 8 ins. diam., bears S. $19^{\circ}15'W.$, 105 lks.
dist., marked T 33 S R 26 E S 10 BT.

A pinon, 9 ins. diam., bears N. $30^{\circ}31'W.$, 131 lks.
dist., marked T 33 S R 26 E S 3 BT.

Land, rolling.

Soil, solid sandstone covered with soil from 15 to 20 ins.
deep, rocky, 3rd. rate,

Timber, scattering pinon and cedar.

Undergrowth, dense sage brush.

Land covered with dense undergrowth on 80.00 chs.

September 28, 1911.

Sept. 29: At 7h. 51m. a.m. I set off $37^{\circ}58'N.$ on the lat.
arc, $2^{\circ}06'S.$ on decl. arc, and determined a meridian with
the solar at the cor. of secs. 2-3-10 and 11.

Thence I run

S. $89^{\circ}57'W.$, on a random line, bet. secs. 3 and 10.40.00 Set temp. $\frac{1}{4}$ sec. cor.80.06 Intersect the N. and S. line, 9 lks. S. of the cor. of secs.
3-4-9 and 10.

Thence I run

S. $89^{\circ}59'E.$, on a true line,

Bet. secs. 3 and 10.

Gradual descent over rolling land, through dense under-
growth, and scattering timber.

3.80 Top of ledges, bears N. and S., abrupt descent.

7.60 Bottom of ravine, 50 ft. deep, course NW. into Summit Canyon.
Abrupt ascent.

13.65 Top of sandstone ledges, bears N. and S.

Gradual ascent over rolling land.

35.25 Leave timber.

40.03 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 3$ on N.
half, S 10 on S. half, from whichA lone pinon, 7 ins. diam., bears N. $56^{\circ}15'E.$, 60 lks.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	dist., marked $\frac{1}{4}$ S 3 BT. No other trees within limits, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
50.35	Enter scattering timber.
80.06	The cor. of secs. 2-3-10 and 11. Land, rolling and mountainous. Soil, rocky, 3rd. rate. subsoil, solid sandstone. Timber, scattering cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth on 80.06 chs.
	. September 29: At this cor. I set off $2^{\circ}11' S.$ on decl. arc, and at 11h.51m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ}58' N.$
11.80	East, on a true line, bet. secs. 2 and 11. Gradual descent over rolling land, through scattering timber and dense undergrowth. Intersect Utah-Colorado State Boundary line at N. $0^{\circ}35' W.$ 28.83 chs., from the 64 Mile Cor., heretofore described. Set an iron post, 3 ft. long, 2 ins. dia., 2 $\frac{1}{4}$ ins. in the ground, for closing cor. of secs. 2 and 11, marked on brass cap, CC C on E. half, U on W. half, T 33 S S 2 in NW., and R 26 E S 11 in SW. quadrant, from which A pinon, 10 ins. diam., bears N. $35^{\circ}30' W.$, 99 lks. dist., marked T 33 S R 26 E S 2 BT. A pinon 6 ins. diam., bears S. $75^{\circ}30' W.$, 79 lks. dist., marked T 33 S R 26 E S 11 BT. Land, rolling. Soil, rocky loam, 2nd. rate from 12 to 15 ins. deep. Subsoil, gravelly. Timber, scattering cedar and pinon. Undergrowth, sage brush. Land covered with dense undergrowth on 11.80 chs.

SUBDIVISIONS OF T.33 S., R.26 E.

CHAINS	N.0°02'E., on a random line, bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.00	Intersect N.bdy. of Tp., 5 lks.E. of the re established cor. of secs. 2-3-34 and 35, heretofore described.
	Thence I run
	South, on a true line, bet. secs. 2 and 3.
	Gradual descent over rolling land, through scattering timber and dense undergrowth.
41.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3' on W. half, S 2' on E. half, from which
	. A pinon, 10 ins. diam., bears S.46°15'E., 5 lks. dist., marked $\frac{1}{4}$ S 2' BT.
	A pinon, 8 ins. diam., bears S.31°30'W., 26 lks. dist., marked $\frac{1}{4}$ S 3' BT.
81.00	The cor. of secs. 2-3-10 and 11.
	Land, rolling.
	Soil, rocky loam, from 12 to 15 ins. deep, 2nd. rate.
	Subsoil, gravelly.
	Timber, scattering cedar and pinon.
	Undergrowth, sage brush.
	Land covered with dense undergrowth on 81.00 chs.

September 29, 1911

Melvin D. Heist
U.S. Transitman

G E N E R A L D E S C R I P T I O N .

This fractional township is situated on the Utah - Colorado State Boundary line and surface is generally undulating, sloping to the southeast.

The only mountainous land in this township is found in the northeastern portion of the township, which is Summit Canyon, a deep narrow gorge, cutting through the solid sandstone and draining northeasterly.

A heavy growth of cedar and pinon timber is found in the extreme northern and extreme southern portions of

GENERAL DESCRIPTION OF T.33 S., R.26 E.

the township, while the balance is covered with a scattering growth of cedar and pinon timber and a dense growth of sage brush.

Secs. 7, 8, 17, 18, 19 and 20 of this township ~~are~~ ^{are} suitable for dry farming, inasmuch as the soil is a rich sandy loam from 12 to 18 ins. deep, with a gravelly subsoil, with an annual average precipitation of about 23 inches. The balance of the township is generally rocky and the subsoil gravelly or solid sandstone and is suitable for grazing purposes only.

There are no settlers residing in this township.

The wire fence enclosure in secs. 21, 22, 27 and 28 is a pasture for cattlemen.

The cabin in the southeast $\frac{1}{4}$ of sec. 21 is used by cattlemen, claimant unknown.

Dalton cabin, situated at Summit Spring, ~~KETCH~~ ^{neither} of which could ~~not~~ be located from any point on any line, is situated approximately in the southeast corner of the NW $\frac{1}{4}$ of sec. 9, both spring and cabin are used by local cattlemen.

The only cultivated land in this township is located in the NW $\frac{1}{4}$ sec. 18, area 33 acres, extending from a larger portion of cultivated land in T.33 S., R.25 E. The cultivated land belongs to the Grayson Dry Farm Co., of Grayson, Utah, who hold all of the land inside of the wire fence in secs. 7, 8-17-18-19 and 20, and other lands in T.33 S., R.25 E.

Joseph M. Bailey, Earl Dalton and John Jones are said to hold lands within the holdings of this company in the aforesaid secs., but what portion is held by each individual we were unable to find out.

The only water in this township is Summit Spring, already described in sec. 9 and Piute Spring in SE. $\frac{1}{4}$ of sec. 21, both are small springs of pure water and are used by stockmen, being the only water for this purpose within a radius of 8 miles.

GENERAL DESCRIPTION OF T.33 S., R.26 E.

The main road between Dolores, Colorado and Monticello, Utah, crosses this township.

The other roads are local roads of no importance.

The telephone line between Dolores and Monticello, crosses the southeast cor. of the Tp.

There are no indications of coal, oil or minerals found in this township.

Melvin D. Heisk
Olen B. Anderson
U.S. Transitmen

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CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
ated opposite our several signatures, in surveying all those parts or portions of

For certificates of assistants see book "Z" T. 33 S., R. 26 E.

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF SURVEYOR

I, _____, U. S. Surveyor, do solemnly swear,
of special instructions received from the U. S. Surveyor General for _____
bearing date of the _____ day of _____, 181_____, I have well examined,
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying
Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oaths of transition see book "Z" - T. 33 S. R. 26 E.

of the _____

Meridian, in the State of _____, which are represented
the foregoing field notes as having been executed by me, and under my direction; and I do further
solemnly swear that all the corners of said survey have been established and perpetuated in strict accord
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor
General for _____ and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 191_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19, 1814

The foregoing field notes of the survey of _____ the subdivitional lines of Township
No. 33 South, Range No. 26 East of the Salt Lake Base and Meridian, Utah

executed by _____ Marvin D. Holst and Eben B. Andrews
under my special instructions dated May 22,

critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Thomas Jeffery
U. S. Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in
_____, has been correctly copied from the original notes on file in this office.

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FEB 10 1912

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BOOK A-393

H.E.H.
E.W.

FIELD NOTES

RETRACEMENT
OF THE SURVEY OF THE

SOUTH BOUNDARY
and
RESURVEY EAST AND NORTH BOUNDARIES
o r
TOWNSHIP 32 SOUTH, RANGE 24 EAST.

Of the SALT LAKE BASE and Meridian,

In the State of UTAH.

EXECUTED BY

Melvin D. Heist and Eben E. Andrews.

Transitmen

In the capacity of U.S. Surveyors, under instructions dated May 22, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 12, which were approved by the Commissioner of the General Land
Office, June 17, 1911, pursuant to authority contained in the Act of
Congress dated 1911.

Survey commenced October 2, 1911.

Survey completed October 7, 1911.

B5c. 124 5-79-53
Ric E R.S. 6-40-96
Ric N R.S. 6-05-14 ✓

BOOK A-393

INDEX DIAGRAM.

Township 32 SOUTH, Range 24 EAST.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
5	11	11	3	3	2

Retracement of the South Boundary of T.32 S., R.24 E.

Survey commenced October 2, 1911, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps.32 and 33 S., Rs.24 and 25 E., which is a sandstone 15x8x4ins., marked and witnessed as described by the surveyor general, in approximate lat. $37^{\circ}59'N.$, long. $109^{\circ}16'W.$, I set off $37^{\circ}59'N.$ on the lat. arc, $3^{\circ}24'S.$ on the decl. arc, and at 3h.50m., p.m., l.m.t., determine a meridian with the solar and mark a point there of, on a stone firmly set in the ground 5chs. N. of the cor.

At 6h.51m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground 5chs. N. of my station.

October 2, 1911.

October 3: At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the mark falls 0.3ins. east of the mark determined by the solar.

At 7h.49m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat. arc, $3^{\circ}39'S.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.2ins. east of the meridian established by the Polaris observation.

The solar apparatus, by a.m. and p.m. observations, defines positions for meridians, respectively, about $0'11''$ east and $0'16''$ west of the meridian established by the Polaris observations; therefore I conclude that the adjustments

CHAINS

of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m. is N.15°35'W., the angle thus determined gives the mag. decl. 15°35'E.

From the Tp. cor. already described, I run
West, retracing bet. secs. 1 and 36.

Over rolling land, through dense undergrowth.

- 40.13 Intersect the old $\frac{1}{4}$ sec. cor., which is a decayed cedar post. I re-establish the cor. at the same point as follows: Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 36 in N. half, and S 1 in S. half; dig pits 18x18x12ins. E. and W. of post 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of the cor.
- 80.26 Intersect the old cor. of secs. 1-2-35 and 36, which is a sandstone 7x6x4ins. above ground, with the marks nearly obliterated. I re-establish the cor. in the same point as follows: Set an iron post 3ft. long, 3ins. dia., 24ins. in the ground for re-established cor. of secs. 1-2-35 and 36, marked on brass cap, T 32 S S.35 in NW.

R 2⁴ E S 36 in NE.

R 2⁴ E S 1 in SE. and

T 33 S S 2 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

The course of this line is therefore West and the distance 80.26chs.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay and gravel.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.26chs.

Retracement of the South Boundary of T.32 S., R.24 E.

CHAINS

	West, retracing bet. secs. 2 and 35.
	Over rolling land, through dense undergrowth.
39.90	Fall 6 lks. S. of the $\frac{1}{4}$ sec. cor., which is a sandstone 12x10x4ins. above ground, marked and witnessed as described by the surveyor general.
	I continue on same line.
79.96	Intersect cor. of secs. 2-3-34 and 35, which is a sandstone 14x10x3ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N.89°55'W.39.90 chs. Land: S.89°55'W.40.06 chs.
	Land, rolling.
	Soil, sandy loam, 1st. rate.
	Subsoil, clay.
	No timber.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth on 79.96chs.
	West retracing bet. secs. 3 and 34.
	Over rolling land, through dense undergrowth.
40.20	Fall 3 lks. S. of the $\frac{1}{4}$ sec. cor., which is a sandstone 10x8x5ins. above ground, marked and witnessed as described by the surveyor general.
	I continue on same line.
80.44	Fall 7 lks. S. of the cor. of secs. 3-4-33 and 34, which is a sandstone 4x8x12ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N.89°57'W., and the distance 80.44chs.
	Land, rolling.
	Soil, sandy loam, 1st. rate.
	Subsoil, clay and gravel.
	No timber.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth on 80.44chs.

Retracement of the South Boundary of T.32 S., R.24 E.

CHAINS

October 3: At 11h.49m., a.m., l.m.t., I set off $3^{\circ}44' S.$ on the decl. arc, and at the above cor. observe the sun on the meridian, the resulting lat. is $37^{\circ}59' N.$

West, retracing bet. secs. 4 and 33.

Over rolling land, through dense undergrowth.

40.06 Fall 2 lks. S. of the $\frac{1}{4}$ sec. cor., which is a sandstone 4x8x9ins. above ground, marked and witnessed as described by the surveyor general.

I continue on same line.

80.10 Fall 5mlks. S. of the cor. of secs. 4-5-32 and 33, which is a decayed cedar post with the marks nearly obliterated. I destroy all traces of the old cor. and re-establish it at the same point as follows:

Set an iron post 3ft. long, 3ins. dia., 24ins. in the ground for re-established cor. of secs. 4-5-32 and 33, marked on brass cap,

T 32 S S 32 in NW.

R 24 E S 33 in NE.

R 24 E S " in SE. and

T 33 S S 5 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

The course of this line is therefore $N.89^{\circ}58' W.$, and the distance 80.10chs.

Land, rolling.

Soil, sandy loam, 2nd. rate.

Subsoil, gravel.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.10chs.

West, retracing bet. secs. 5 and 32.

Over rolling land, through dense undergrowth.

40.16 Intersect $\frac{1}{4}$ sec. cor., which is a sandstone 5x10x14ins. above ground, marked and witnessed as described by the surveyor general.

Retracement of the South Boundary of T.32 S., R.2⁴ E.

CHAINS	
67.15	Wash, 20ft. deep, 35ft. wide, drains S.
72.17	Wagon road, bears NW. and SE.
73.31	Wire fence, bears NW. and SE.
75.00	Enter scattering timber.
80.42	Intersect the cor. of secs. 5-6-31 and 32, which is a sandstone 5x10x22ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore West, and the distance 80.42chs.
	Land, rolling.
	Soil, sandy loam, 2nd. rate.
	Subsoil, gravel.
	Timber, cedar and pinon.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth or scattering timber on 80.42chs.
	West, retracing bet. secs. 6 and 31.
	Over rolling land, through dense undergrowth.
.35	Wire fence, bears NE. and SW.
16.05	Wire fence, bears N. and S.
17.60	Wagon road, bears N. and S.
19.17	Wire fence, bears N. and S.
39.94	Fall 2 lks. S. of $\frac{1}{4}$ sec. cor., which is a sandstone 3x12x14ins. above ground, marked and witnessed as described by the surveyor general. I continue on same line.
45.00	Enter level bottom land.
50.75	Vega creek, 5ins. deep, 4ft. wide, drains SE.
60.00	Leave level bottom land. Thence rolling.
78.35	Fall 5 lks. S. of the cor. of Tps. 32 and 33 S., Rs. 23 and 24 E., which is a sandstone 4x8x12ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N.89°58'W., and the distance, 78.35chs.

Land, level and rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 78.35 chs.

For general description see subdivision of T.32 S., R.24 E.

October 3, 1911.

Melvin A. Heist
U.S. Transitman.

Volume

#

R0393

-1-

Resurvey of the East Boundary of T.32 S., R.2⁴ E.

Survey commenced October 2, 1911, and executed with the instrument described in book "D", of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 32 and 33 S., Rs. 24 and 25 E., heretofore described, in approximate lat. $37^{\circ}59'N.$, long. $109^{\circ}16'W.$, I set off $37^{\circ}59'N.$ on the lat. arc, $3^{\circ}24'S.$ on the decl. arc, and at 3h.50m., p.m., l.m.t., determine a meridian with the solar and mark a point thereof, on a stone firmly set in the ground 5chs. N. of the cor.

At 6h.51m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground 5chs., N. of my station.

October, 2, 1911.

October 3: At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.2ins. east of the mark determined by the solar.

At 7h.49m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat. arc, $3^{\circ}39'S.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.3ins. east of the meridian established by the Polaris observation.

The solar apparatus, by a.m. and p.m. observations, defines positions for meridians, respectively about $0'16''$ east and $0'11''$ west of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

Resurvey of the East Boundary of T.32 S., R.2⁴ E.

CHAINS

The magnetic bearing of the true meridian at 8h.30m., a.m. is N.15°35'W., the angle thus determined gives the mag. decl. 15°35'E.

Knowing from retracements and resurveys of the original exteriors, that they are out of limits or missing and there being no subdivision dependent upon the E. bdy. of T.32 S., R.2⁴ E., I proceed to resurvey the line as follows:

From the Tp. cor. already described, I run

..... North, resurveying bet. secs. 31 and 36.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft.long, 1 in.dia., 26in. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 36 in W. half, and S 31 in E. half; dig pits 18x18x12ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec cor.

80.00 Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 25-30-31 and 36, marked on brass cap, T 32 S in N. half,

R 2⁴ E S 25 in NW.

R 25 E S 30 in NE.

S 31 in SE. and

S 36 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft. high W. of cor.

After diligent search no trace can be found of the old sec. cor.

Land, rolling.

Soil, sandy loam and loose rock, 2nd. rate.

Subsoil, sandstone.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

-7-

Resurvey of the East Boundary of T.32 S., R.2⁴ E.

CHAINS

- North, resurveying bet. secs. 25 and 30.
Over rolling land, through dense undergrowth.
- 40.00 Set an iron post, 3ft.long, 1 in.dia., 26ins. in the ground
for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S
25 in W. half, and S 30 in E. half; dig pits 18x18x12ins.
N. and S. of post, 3ft. dist.; and raise a mound of earth,
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
After diligent search no trace can be found of the old
 $\frac{1}{4}$ sec. cor.
- 80.00 Set an iron post 3ft.long, 3ins.dia., 2 $\frac{1}{4}$ ins. in the ground
for re-established cor. of secs. 19-2⁴-25 and 30, marked
on brass cap, T 32 S in N. half,
R 2⁴ E S 2⁴ in NW.
R 25 E S 19 in NE.
S 30 in SE. and
S 25 in SW. quadrant; dig pits 18x18x12ins. in each sec.
 $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4ft. base, 2ft.
high W. of cor.
After diligent search no trace can be found of the old
sec. cor.
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, sandstone.
No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 80.00chs.

North, resurveying bet. secs. 19 and 24.

Over rolling land, through dense undergrowth.

- 40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S
24 in W. half, and S 19 in E. half; dig pits 18x18x12ins.
N. and S. of post, 3ft. dist.; and raise a mound of earth,
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
After diligent search no trace can be found of the old

-10-

Resurvey of the East Boundary of T.32 S., R.24 E.

CHAINS	
	$\frac{1}{4}$ sec. cor.
80.00	<p>Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 13-18-19 and 24, marked on brass cap, T.32 S in N. half, R 24 E S 13 in NW. R 25 E S 18 in NE. S 19 in SE. and S 24 in SW. quadrant; dig pits 18x18x12ins. in each sec. 5$\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. After diligent search no trace can be found of the old sec. cor.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, 1st. rate.</p> <p>Subsoil, sandstone.</p> <p>No timber.</p> <p>Undergrowth, sagebrush.</p> <p>Land covered with dense undergrowth on 80.00chs.</p>
	October 3: At 11h.49m., a.m., I set off 3°44'S. on the decl. arc, and at the re-established cor. of secs. 13-18-19 and 24, observe the sun on the meridian, the resulting lat. is 38°02'N. Thence I run
	North, resurveying bet. secs. 13 and 18.
	Over rolling land, through dense undergrowth.
15.00	Enter scattering timber.
40.00	<p>Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 in W. half, and S 18 in E. half; from which</p> <p>A pinon 7ins.dia., bears, N.77°10'E., 23 lks. dist., marked $\frac{1}{4}$ S 18 BT.</p> <p>A cedar 8ins.dia., bears S, 86°55'W., 48 lks. dist., marked $\frac{1}{4}$ S 13 BT.</p> <p>After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.</p>

-1-

Resurvey of the East Boundary of T.32 S., R.2⁴ E.

CHAINS	
74.00	Leave scattering timber.
80.00	Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 7-12-13 and 18, marked on brass cap, T.32 S. in N. half, R 24 E S 12 in NW. R 25 E S 7 in NE. S 18 in SE. and S 13 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, $\frac{1}{4}$ ft. base, 2ft. high W. of cor. After diligent search no trace can be found of the old sec. cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.00chs.

	North, resurveying bet. secs. 7 and 12. Over rolling land, through dense undergrowth.
38.00	Enter scattering timber,
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 7 in W. half, and S 12 in E. half; from which A pinon 5ins.dia., bears, N.59°30'E., 117 lks. dist., marked $\frac{1}{4}$ S 12 BT. No other bearing tree within limits; dig pits 18x18x12ins. N. and S. of post, 3ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.
45.00	Leave dense undergrowth. Enter heavy timber, bears E. and W.

Resurvey of the East Boundary of T. 32 S., R. 24 E.

CHAINS

- 67.00 Wash, 20ft. deep, 35ft. wide, drains NW. 00 ft
Ascend. 00 ft
- 72.80 Spur, projects 5chs. W. Descend. 00 ft
- 20.00 Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground
for re-established cor. of secs. 1-6-7 and 12, marked on
brass cap, T 32 S in N. half, R 24 E S 1 in NW.
R 25 E S 6 in NE.
S 7 in SE. and S 12 in SW. quadrant; from which
A pinon 6ins.dia., bears, N.24°25'E., 67 lks. dist.,
marked T 32 S R 25 E S 6 BT.
- A pinon 7ins.dia., bears, S.41°22'E., 36 lks. dist.,
marked T 32 S R 25 E S 7 BT.
- A pinon 10ins.dia., bears, S.33°30'W., 65 lks. dist.,
marked T 32 S R 24 E S 12 BT.
- A pinon 8ins.dia., bears, N.14°30'W., 26 lks. dist.,
marked T 32 S R 24 E S 1 BT.

After diligent search no trace can be found of the old
sec. cor.

Land, rolling.

Soil, sandy loam and loose rock, 2nd. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-
growth on 80.00chs.

North, resurveying bet. secs. 1 and 6.

Descend over mountainous land, through heavy timber,

- 3.80 Top of sandstone ledges, 200ft. high, bear NE. and SW.
Abrupt descent.

8.10 Foot of ledges. Rolling descent.

- 40.00 Set an iron post 3ft.long, 1 in dia., 26ins. in the ground
for re-established + sec. cor., marked on brass cap, + S
1 in W. half, and S 6 in E. half; from which

-3-

Resurvey of the East Boundary of T.32 S., R.24 E.

CHAINS

A pinon 7ins.dia., bears, N. $88^{\circ}10' E.$, 30 lks. dist., marked $\frac{1}{4}$ S 6 BT.

A pinon 8ins.dia., bears, N $39^{\circ}32' W.$, 51 lks. dist., marked $\frac{1}{4}$ S 1 BT.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.

October 3, 1911.

October 7: At 7h. 48m., a.m., l.m.t., I set off $38^{\circ}03' N.$ on the lat. arc, $5^{\circ}12' S.$ on the decl. arc, and at the above cor., determine a meridian with the solar. Thence I run North, resurveying bet. secs. 1 and 6.

- 60.50 Wash, 35ft. deep, 80ft. wide, drains NW.
74.90 Wash, 50ft. deep, 100ft. wide, drains NW.
89.50 Wash, 45ft. deep, 95ft. wide, drains W.
120.96 Which is equal to the W. bdy. of the Tp. plus the southing of the S.bdy run east.

Set an iron post 3ft.long, 3ins.dia., $2\frac{1}{4}$ ins. in the ground for re-established cor. of Tps. 31 and 32 S., Rs. 2 $\frac{1}{4}$ and 25 E., marked on brass cap, T 31 S in N. half,

T 32 S in S. half,

R 2 $\frac{1}{4}$ E S 36 in NW.

R 25 E S 31 in NE.

R 25 E S 6 in SE. and

R 2 $\frac{1}{4}$ E S 1 in SW: quadrant; from which

A pinon 7ins.dia., bears, N. $42^{\circ}10' E.$, 25 lks. dist., marked T 31 S R 25 E S 31 BT.

A pinon 6ins.dia., bears, S. $40^{\circ}35' E.$, 39 lks. dist., marked T 32 S R 25 E S 6 BT.

A cedar 1 $\frac{1}{4}$ ins.dia., bears, S. $41^{\circ}30' W.$, 19 lks. dist., marked T 32 S R 24 E S 1 BT.

A cedar 8ins.dia., bears, N. $50^{\circ}35' W.$, 80 lks. dist., marked T 31 S R 24 E S 36 BT.

After diligent search no trace can be found of the old Tp. cor.

Land, mountainous.

Soil, sandy loam, loose rock and sandstone ledges, 4th. rate.

74

Resurvey of the North Boundary of T.32 S., R.2⁴ E.

CHAINS

Subsoil, sandstone.

Timber, cedar and pinon.

Mountainous, heavily timbered land on 120.96chs.

From the re-established cor. of Tps.31 and 32 S.,Rs.2⁴ and 25 E., I run

West on random line, along the N. bdy. of T.32 S., R 2⁴ E., setting temp. $\frac{1}{4}$ sec. and sec. cors, at intervals of 40.00 chs.; and, at 485.14chs., intersect the cor. of Tps.31 and 32 S.,Rs.2³ and 24 E., heretofore described.

October 7: At 11h.48m., a.m., l.m.t., I set off 5°17'S. on the decl. arc, and at the above Tp. cor., observe the sun on the meridian, the resulting lat. is 38°04'N.

Thence I run

East, resurveying bet. secs. 6 and 31.

Descend, through dense undergrowth.

3.90 Wash, 25ft. deep, 40ft. wide, drains NW.

Ascend.

7.34 Intersect closing cor. of Tp. 32 S., Rs.2³ and 24 E., heretofore described.

28.30 Begin abrupt ascent over sandstone ledges.

28.54 Leave dense undergrowth, Enter scattering timber, bears NE.. and SW.

31.36 Top of ledges, 100ft. high, bear NW. and SE.

Gradual ascent.

45.14 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 31 in N. half, and S 6 in S. half; from which

A pinon 7ins.dia., bears, N.42°40'E., 48 lks. dist., marked $\frac{1}{4}$ S 31 BT.

A pinon 6ins. dia., bears, S.30°00'W., 80 lks. dist., marked $\frac{1}{4}$ S 6 BT.

82.44 Wash, 30ft. deep, 65ft. wide, drains SW.

85.14 Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs.5,6,31&32, marked on brass

Resurvey of the North Boundary of T.32 S., R.24 E.

CHAINS

cap, T 31 S S 31 in NW.
 R 2 $\frac{1}{4}$ E S 32 in NE.
 R 2 $\frac{1}{4}$ E S 5 in SE. and
 T 32 S S 6 in SW. quadrant; raise a mound of stone W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, sandy loam, loose rock and sandstone ledges, 4th. rate.
 Subsoil, sandstone.
 Timber, cedar and pinon.
 Undergrowth, sagebrush.
 Mountainous land covered with dense undergrowth or heavy timber on 85.14chs.

East, resurveying bet. secs. 5 and 32.

Ascend over mountainous land, through scattering timber.

- 22.00 Begin abrupt ascent over sandstone ledges.
- 24.60 Top of ledges, 275ft. high, bear NE. and SW. Thence over rolling mesa, through heavy timber.
- 40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 in N. half, and S 5 in S. half; from which
 A pinon 16ins.dia., bears, N.14°10'E., 55 lks. dist., marked $\frac{1}{4}$ S 32 BT.
 A pinon 8ins. dia., bears, S.14°40'E., 25 lks. dist., marked $\frac{1}{4}$ S 5 BT.
- 44.00 Leave heavy timber, bears N. and S. Enter dense undergrowth.
- 57.50 Leave dense undergrowth. Enter heavy timber, bears N. and S.
- 80.00 Set an iron post 3ft.long, 3ins.dia., 2 $\frac{1}{4}$ ins. in the ground for re-established cor. of secs. 4-5-32 and 33, marked on brass cap,
 T 31 S S 32 in NW.
 R 2 $\frac{1}{4}$ E S 33 in NE.
 R 2 $\frac{1}{4}$ E S 4 in SE. and
 T 32 S S 5 in SW. quadrant; from which

Resurvey of the North Boundary of T.32 S., R.24 E.

CHAINING

A pinon 11ins.dia.,bears, N. $62^{\circ}20' E.$, 34 lks. dist., marked T 31 S R 24 E S 33 BT.

A pinon 7ins.dia.,bears, S. $47^{\circ}05' E.$, 67 lks. dist., marked T 32 S R 24 E S 4 BT.

A pinon 13ins.dia.,bears, S. $27^{\circ}30' W.$, 50 lks. dist., marked T 32 S R 24 E S 5 BT.

A pinon 6ins.dia.,bears, N. $73^{\circ}45' W.$, 16 lks. dist., marked T 31 S R 24 E S 32 BT.

Land, mountainous and rolling.

Soil, sandy loam, loose rock and sandstone ledges on first 50.00chs., 4th. rate, balance sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Mountainous land, heavily timbered land or land covered with dense undergrowth on 80.00chs.

East, resurveying bet. secs. 4 and 33.

Over rolling land, through heavy timber.

6.00 Leave heavy timber, bears N. and S. Enter dense under-growth.

25.50 Enter scattering timber.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 in N. half, and S 4 in S. half; from which

A pinon 14ins.dia.,bears, N. $70^{\circ}30' E.$, 20 lks. dist., marked $\frac{1}{4}$ S 33 BT.

A cedar 7ins.dia..bears, S. $61^{\circ}30' E.$, 30 lks. dist., marked $\frac{1}{4}$ S 4 BT.

53.50 Leave scattering timber.

80.00 Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 3-4-33 and 34, marked on brass cap,

T 31 S S 33 in NW.

R 24 E S 34 in NE.

R 24 E S 3 in SE. and

-17-

Resurvey of the North Boundary of T.32 S., R.2^W E.

CHAINS

T 32 S S 4 in SW. quadrant; dig pits 18x18x12ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-growth on 80.00chs.

East, resurveying bet., secs. 3 and 34.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 34 in N. half, and S 3 in S. half; dig pits 18x18x12ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

64.00 Wash, 10ft. deep, 30ft. wide, drains SE.

68.50 Leave dense undergrowth. Enter heavy timber, bears NW. and SE.

80.00 Set an iron post 3ft.long, 3ins.dia., 24ins, in the ground for re-established cor. of secs. 2-3-3 $\frac{1}{4}$ and 35, marked on brass cap,

T 31 S S 34 in NW.

R 24 E S 35 in NE.

R 24 E S 2 in SE. and

T 32 S S 3 in SW. quadrant; from which

A pinon 7ins.dia., bears, N. $16^{\circ}40' E.$, 44 lks. dist., marked T 31 S R 24 E S 35 BT.

A pinon 14ins.dia., bears, S. $66^{\circ}10' E.$, 61 lks. dist., marked T 32 S R 24 E S 2 BT.

A pinon 8ins.dia., bears, S. $44^{\circ}00' W.$, 52 lks. dist., marked T 32 S R 24 E S 3 BT.

A pinon 7ins.dia., bears, N. $31^{\circ}20' W.$, 89 lks. dist.,

Resurvey of the North Boundary of T.32 S., R.24 E.

CHAINS

marked T 31 S R 24 E S 34 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-growth on 80.00chs.

East, resurveying bet. secs. 2 and 35.

Over rolling land, through heavy timber.

39.15 Top of sandstone ledges, 200ft. high; bear N. and S.

Abrupt descent.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor, marked on brass cap, $\frac{1}{4}$ S 35 in N. half, and S. 2 in S. half; from which

A pinon 12ins. dia., bears, N. $76^{\circ}45'$ W., 14 lks. dist., marked $\frac{1}{4}$ S 35 BT.

A pinon 5ins. dia., bears, S. $8^{\circ}50'$ W., 27 lks. dist., marked $\frac{1}{4}$ S 2 BT.

"3.00 Foot of ledges. Rolling descent.

73.70 Wash, 35ft. deep. 50ft. wide, drains NE.

80.00 Set an iron post 3ft. long, 3ins. dia., 24ins. in the ground for re-established cor. of secs. 1-2-35 and 36, marked on brass cap,

T 31 S S 35 in NW.

R 2⁴ E S 36 in NE.

R 2⁴ E S 1 in SE. and

T 32 S S 2 in SW. quadrant; from which

A cedar 8ins. dia., bears, N. $7^{\circ}00'$ E., 38 lks. dist., marked T 31 S R 24 E S 36 BT.

A pinon 6ins. dia., bears, S. $20^{\circ}05'$ E., 52 lks. dist., marked T 32 S R 24 E S 1 BT.

A pinon 7ins. dia., bears, S. $15^{\circ}10'$ W., 53 lks. dist., marked T 32 S R 24 E S 2 BT.

Resurvey of the North Boundary of T.32 S., R.24 E.

- Chains. A pinon 7 ins.dia., bears N.34°30'W., 97 lks.
dist., marked T 31 S R 24 E S 35 B T
- Land, rolling and mountainous.
- Soil, sandy loam on first 35.00 chs., 1st rate; balance
sandy loam, loose rock and sandstone ledges, 4th rate.
- Subsoil, sandstone.
- Timber, cedar and pinon.
- Heavily timbered land, or mountainous land on 80.00 chs.
-
- East, resurveying betsecs. 1 and 36,
- Descend over mountainous land; through heavy timber.
- 31.50 Top of sandstone ledges, 200 ft. high, bear N. and S.
- Abrupt descent.
- 38.80 Foot of ledges. Gradual descent.
- 40.00 Set an iron post 3 ft. long, 1 in.dia., 26 ins.in the
..... ground, for re-established $\frac{1}{4}$ sec.cor., marked on
..... brass cap $\frac{1}{4}$ S 36 in N.half; and S 1 in S.half; from
..... which
- A cedar 7 ins.dia.bears N.73° 30'W. 81 lks.dist.
..... marked $\frac{1}{4}$ S 36 B T
- A cedar 8 ins.dia.bears S.20° 25'W. 76 lks.dist.
..... marked $\frac{1}{4}$ S 1 B T
- 56.30 Wash, 20 ft.deep, 30 ft.wide, in the bottom of South
..... Canon, drains N. Ascend.
- 64.00 Begin abrupt ascent over sandstone ledges.
- 71.70 Top of ledges, 200 ft.high, bears N. and S.
..... Gradual ascent.
- 80.00 The cor.of Tps.31 and 32 S.Rs.24 and 25 E.
..... Land, mountainous.
..... Soil, sandy loam, loose rock and sandstone ledges; 4th
..... rate. Subsoil, sandstone.
..... Timber, cedar and pinon.
..... Mountainous, heavily timbered land on 80.00 chs.

Resurvey of the North Boundary of T. 32 S., R. 24 E.

October 7, 1911.

Eben B Andrews
U.S. Transitman.

BOUNDARIES OF T. 32 S., R. 24 E.

Latitudes, Departures, and Closing Errors.

Lines	Designated	True	Dist.	Latitudes	Departures		
		Bearing		N. ches.	S. ches.	E. ches.	W. ches.
West Bdy.	South	277.05	.....	277.05	.....	.....	.....
	S. 0°09' E.	80.23	.....	80.23	.21	.....	.....
	S. 0°48' W.	123.54	.....	123.53	.....	1.72	.....
	South	40.06	.....	40.06	.....	.....	.....
South Bdy.	S. 89°58' E.	78.35	.....	.05	78.35	.....	.....
	East	80.42	.....	.....	80.42	.....	.....
	S. 89°58' E.	80.10	.....	.05	80.10	.....	.....
	S. 89°57' E.	80.44	.....	.07	80.44	.....	.....
	N. 89°55' E.	40.06	.06	.....	40.06	.....	.....
	S. 89°55' E.	39.90	.....	.06	39.90	.....	.....
	East	80.36	.....	.....	80.36	.....	.....
East Bdy.	North	520.96	520.96	.....	.....	.....	.....
North Bdy.	West	477.80	.....	.....	.....	477.80	.....
Convergency							.57
	T o t a l s		521.02	521.10	479.74	480.09	
Error in lat. and dep.					521.02	479.74	
						.08	.35

For general description see subdivision of T. 32 S.,
R. 24 E.

Eben B Andrews
U.S. Transitman.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
_____, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of _____.

or certificates of assistants see book "Z" T.32 S., R. 26 H.

of the _____ Meridian, in the State of _____

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the _____ day of _____, 18____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final oath of transition see back "3" T. 20 S., R. 26 E.

of the _____ Meridian, in the State of _____ which are represented by the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the opinion hereon described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____ and sworn to before me
this _____ day of _____, 18____



APPROVAL.

Office of the United States Surveyor General,

Ogallala Lake City, Mich., March 19, 18____.

The foregoing field notes of the survey of the south, and resurvey of the east and north boundaries of Township No. 12 South, Range N. 24 East of the Salt Lake Meridian and Parallel, Utah,

executed by Marvin H. Knott and John H. Andrews, under the special instructions dated May 22, 18____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

James A. Hall
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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"V"

BOOK A-393

EX-
REK

FIELD NOTES

RETRACEMENT ~~and~~ RESURVEY
and
OF THE SURVEY OF THE

COLORADO-GUIDE MERIDIAN

Between

Tps. 32 S., R. 23 and 24 E.

Of the SALT LAKE BASE and Meridian,

In the State of UTAH

EXECUTED BY

Malvin E. Reist and Eben B. Andrews

Transitmen

In the capacity of U.S. Surveyor, under instructions dated May 22, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 12, which were approved by the Commissioner of the General Land
Office, June 17, 1911, pursuant to authority contained in the Act of
Congress dated , 1911.

Survey commenced October 3, 1911

Survey completed October 6, 1911

6-151

2 - 37 - 05

2 - 37 - 05

2 - 37 - 05

INDEX DIAGRAM.

Township 32 SOUTH, Range 24 EAST.

6	5	4	3	2	1
7	8	9	10	11	12
8	17	16	15	14	13
3	19	20	21	22	23
3	29	28	27	26	25
4	31	32	33	34	35

Retracement and Resurvey
of the
Colorado Guide Meridian, through T. 32 S.

Survey commenced October 3, 1911, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 32 and 33 S., Rs. 23 and 2⁴ E., which is a sandstone, 4x8x12 ins. above ground, heretofore described, in approximate latitude 37°59' N., longitude 109°23' W., I set off 37°59' N. on the latitude arc, 3°47' S. on the decl. arc, and at 3h.49m., p.m., l.m.t., determine a meridian with the solar and mark a point in the line thereof, on a stone firmly set in the ground 5chs. N. of the cor.

At 6h.47m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground 5chs. N. of my station.

October 3, 1911.

October 4: At 7 a.m., I lay off the azimuth of Polaris 1°29' to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the mark falls 0.2 ins. west of the mark determined by the solar.

At 7h.49m., a.m., l.m.t., I set off 37°59' N. on the lat. arc, 4°02' S. on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.2 ins. west of the meridian established by the Polaris observation. The solar apparatus, by a.m. and p.m. observations, defines positions for meridians, about 0'11" west and east, respectively, of the meridian established by the Polaris observations; therefore I conclude that the adjustments

Retracement and Resurvey
of the
Colorado Guide Meridian, through T. 32 S.

CHAINS

of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8n. 30m., a.m. is N. 15° 35' W., the angle thus determined gives the mag. decl. 15° 35' E.

From the Tp. cor., heretofore described, I run North, retracing bet. secs. 31 and 36, and at 40.06chs. intersect the $\frac{1}{2}$ sec. cor., which is a sandstone, 3x10x12 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore North, and the distance 40.06chs.

I continue North and at 80.00chs. can find no trace of the old cor. of secs. 25-30-31 and 36. I continue the line North and at 120.00chs. can find no trace of the old $\frac{1}{2}$ sec. cor. I continue the line North and at 163.60 chs. fall 173 lks. W. of the cor. of secs. 19-24-25 and 30, which is a sandstone, 4x12x12 ins. above ground, marked and witnessed as described by the surveyor general.

The course of the line from the $\frac{1}{2}$ sec. cor. bet. secs. 31 and 36 and the cor. of secs. 19-24-25 and 30, is therefore N. 0° 48' E., and the distance 123.54chs.

I offset over the cor. of secs. 19-24-25 and 30, and run North, retracing bet. secs. 19 and 24, and at 40.00chs. can find no trace of the old $\frac{1}{2}$ sec. cor. I continue North and at 80.23chs. fall 21 lks. E. of the cor. of secs. 13-18-19 and 24, which is a sandstone, 3x6x6 ins. above ground, marked and witnessed as described by the surveyor general. As the stone is under size, I destroy all trace of the old cor. and re-establish it at the same point as follows:

Set an iron post 3ft. long, 3ins. dia., 2" ins. in the ground for cor. of secs. 13 and 24, marked on brass cap,

T 32 S in N. half,

R 23 E S 13 in NW. and

S 23 in SW. quadrant; dig pits 2"x2"x12 ins. in each sec., 6ft. dist.; and raise a mound of earth, 4ft. base, 2ft.

Resurvey of the Colorado Guide Meridian, through T 32 S.

CHAINS

high W. of cor.

Knowing that a closing cor. for secs. 18 and 19 will be set, this cor. is marked for secs. 13 and 24, only.

October 4: At 11h.49m., a.m., l.m.t., I set off $4^{\circ}07' S.$ on the decl. arc, and at the re-established cor. of secs. 13 and 24, observe the sun on the meridian, the resulting lat. is $38^{\circ}02' N.$ Thence I run

$5.0^{\circ}09' E.$, resurveying bet. secs. 19 and 24.

Over rolling land, through dense undergrowth.

28.78

Wagon road, course NE. and SW.

Difference between measurement of $40.11\frac{1}{2}$ chs. by two sets of chainmen is 3 lks.; position of middle point

By 1st. set 40.10 chs.

By 2nd. set 40.13 chs.; the mean of which is

$40.11\frac{1}{2}$ Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{8}$ 24 in W. half, and S 19 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

66.43

Leave dense undergrowth. Enter heavy timber, bears NE. and SW.

Difference between measurement of 80.23 chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st. set 80.21 chs.

By 2nd. set 80.25 chs.; the mean of which is

80.23

The cor. of secs. 19-24-25 and 30.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense undergrowth on 80.23 chs.

$5.0^{\circ}48' W.$, bet. secs. 25 and 30.

Over rolling land, through heavy timber.

Resurvey of the Colorado Guide Meridian, through T 32 S.

CHAINS

- 6.62 Leave heavy timber, bears NE. and SW. Enter dense undergrowth.
- 14.12 Wash, 20ft. deep, 35ft. wide, drains NW.
Difference between measurement of 41.18chs. by two sets of chainmen is 2 lks.; position of middle point
By 1st. set 41.17chs.
By 2nd. set 41.19chs.; the mean of which is.
- 41.18 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 25 in W. half, and S 30 in E. half; dig pits 18x18x12 ins N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 80.17 Wagon road, Monticello to South Canon, course E and W.
Difference between measurement of 80.36chs. by two sets of chainmen is 4 lks.; position of middle point
By 1st. set 82.34chs.
By 2nd. set 82.38chs.; the mean of which is.
- 82.36 Set an iron post 3ft.long, 3ins.dia., 2 $\frac{1}{4}$ ins. in the ground for cor. of secs. 25 and 36, marked on brass cap,
T 32 S in N. half,
R 23 E S 25 in NW. and
S 36 in SW. quadrant; dig pits 24x2 $\frac{1}{4}$ x12 ins. in each sec., 6ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.
Knowing that a closing cor. of secs. 30 and 31 will be set this cor. is marked for secs. 25 and 36 only.
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, clay.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Heavily timbered land or land covered with dense undergrowth on 82.36chs.

S.0°48'W., bet. secs. 31 and 36.

Over rolling land, through dense undergrowth.

Resurvey of the Colorado Guide Meridian, through T. 32 S.

CHAINS

	Difference between measurement to the $\frac{1}{4}$ sec. cor. by two sets of chainmen is 2 lks.; position of cor.
	By 1st. set 41.17chs.
	By 2nd. set 41.19chs.; the mean of which is
41.18	The $\frac{1}{4}$ sec. cor. bet. secs. 31 and 36, heretofore described. Thence I run
	South, resurveying bet. secs. 31 and 36.
20.50	Wagon road, course SE. and NW.
20.90	Pole fence, bears SE. and NW.
34.49	Pole fence, bears E. and W.
34.70	Vega Creek, 5ins. deep, 4ft. wide, drains SE.
	Difference between measurement to the cor. of Tps. 32 and 33 S., Rs. 23 and 24 E., by two sets of chainmen is 2 lks.; position of cor.
	By 1st. set 40.05chs.
	By 2nd. set 40.07chs.; the mean of which is
40.06	The cor. of Tps. 32 and 33 S., Rs. 23 and 24 E., heretofore described. Land, rolling.
	Soil, sandy loam, 1st. rate.
	Subsoil, clay.
	No timber.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth on 81.2 $\frac{1}{4}$ chs.

October 4.1911.

October 6: At 7h.48m., a.m., l.m.t., I set off 38°02' N. on the lat. arc, 4°49'S. on the decl. arc, and at the re-established cor. of secs. 13 and 24, heretofore described determine a meridian with the solar.

Thence I run North on random line along the Colorado Guide Meridian setting temp. cors. at 40.00chs. and 80.00chs. and at 277.05chs. fall 7.3 $\frac{1}{4}$ chs. E. of the cor. of Tps. 31 and 32 S., Rs. 23 and 24 E., which is a sandstone 6x8x16 ins. above ground, marked and witnessed as described by the surveyor general.

This falling answers to a correction of more than 0°21' of arc, therefore I set a closing cor. to T. 32 S., Rs. 23

Survey of the Colorado Guide Meridian, through T. 32 S.

CHAINS

and 24 E., at this point, as follows:

Set an iron post 3ft. long, 3ins. dia., 26ins. in the ground for closing cor. to T. 32 S., Rs. 23 and 24 E., marked on brass cap,

T 31 S R 23 E S 36 R 24 E S 31 in W. half,

T 32 S CC in S. half,

R 24 E S 6 in SE. and

R 23 E S 1 in SW. quadrant; and raise a mound of stone, 2ft. base, $1\frac{1}{4}$ ft. high S. of cor.

I destroy all marks on the cor. of Tps. 31 and 32 S., Rs. 23 and 24 E., that pertain to T. 32 S.

October 6: At 11h.48m., a.m., l.m.t., I set off $4^{\circ}54' S.$ on the decl. arc, and at the closing cor. of T. 32 S., Rs. 23 and 24 E., observe the sun on the meridian, the resulting lat. is $38^{\circ}04' N.$

Thence I run

South, on true line bet. secs. 1 and 6.

Over rolling land, through dense undergrowth.

5.00 Wash, 20ft. deep, 30ft. wide, drains NW.

14.75 Leave dense undergrowth. Enter heavy timber, bears NE. and SW.

Difference between measurement of 77.05chs. by two sets of chainmen is 6 lks.; position of middle point

By 1st. set 77.02chs.

By 2nd. set 77.08chs.; the mean of which is

77.05 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 in W. half, and S 6 in E. half; from which

A pinon 8ins. dia., bears, $N.65^{\circ}15'E.$, 17 lks. dist., marked $\frac{1}{4}$ S 6 BT.

A cedar 12ins. dia., bears, $S.45^{\circ}10'W.$, 15 lks. dist., marked $\frac{1}{4}$ S 1 BT.

Begin abrupt ascent over sandstone ledges.

77.95 Top of ledges, 30ft. high, bear NE. and SW.

Gradual ascent.

Difference between measurement of 117.05chs. by two sets

Survey of the Colorado Guide Meridian, through T 32 S.

CHAINS

of chainmen is 12 lks.; position of middle point
By 1st. set 116.99chs.

By 2nd. set 117.11chs.; the mean of which is

117.05 Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground
for cor. of secs. 1 and 12, marked on brass cap,

T 32 S in N. half,

R 23 E S 1 in NW. and

S 12 in SW. quadrant; from which

A pinon 8ins.dia., bears, S.35°00'W., 37 lks. dist.,
marked T 32 S R 23 E S 12 BT.

A cedar 7ins.dia., bears, N.49°25'W., 95 lks. dist.,
marked T 32 S R 23 E S 1 BT.

Knowing that a closing cor. of secs. 6 and 7 will be set
this cor. is marked for secs. 1 and 12 only..

Land, rolling and mountainous.

Soil, sandy loam on first 15.00chs., 1st. rate; balance
sandy loam, loose rock and sandstone ledges, 4th. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-
growth on 117.05chs.

South, on true line bet. secs. 7 and 12.

Ascend over mountainous land, through heavy timber.

39.90 Leave heavy timber, bears NE. and SW. Enter scattering
timber and dense undergrowth.

Difference between measurement of 40.00chs. by two sets
of chainmen is 4 lks.; position of middle point

By 1st. set 39.98chs.

By 2nd. set 40.02chs.; the mean of which is

40.00 Set an iron post 3ft.long, 1' in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 12 in W. half,
and S 7 in E. half; from which

A cedar 6ins.dia., bears, N.56°00'E., 128 lks. dist.,
marked $\frac{1}{4}$ S 7 BT.

A cedar 7ins. dia., bears, N.12°00'W., 32 lks. dist.,

Survey of the Colorado Guide Meridian, through T 32 S.

CHAINS

marked $\frac{1}{4}$ S 12 BT.

40.15 Begin abrupt ascent over sandstone ledges.

46.45 Top of ledges, 190ft. high, bear NE. and SW. Thence over rolling land.

Difference between measurement of 80.00chs. by two sets of chainmen is 6 lks.; position of middle point

By 1st. set 79.97chs.

By 2nd. set 80.03chs.; the mean of which is

80.00 Set an iron post .3ft. long, 3ins. dia., 24ins. in the ground for re-established cor. of secs. 12 and 13, marked on brass cap, T 32 S in N. half,

R 23 E S 12 in NW. and

S 13 in SW. quadrant; dig pits 24x24x12 ins. in each sec., 6ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

From this cor., the old cor. of secs. 7-12-13 and 18, which is a cedar post marked and witnessed as described by the surveyor general, bears, N. 59° 40' E., 40 lks. dist. As no subdivision is dependent upon this cor., I destroy all marks of same.

Knowing that a closing cor. of secs. 7 and 18 will be set the above cor. is marked for secs. 12 and 13 only.

Land, mountainous and rolling,

Soil, sandy loam, loose rock and sandstone ledges on first 47.00chs., 4th. rate, balance sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense undergrowth on 80.00chs.

South, resurveying bet. secs. 13 and 18.

Over rolling land, through dense undergrowth and scattering timber.

Difference between measurement of 40.00chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st. set 39.99chs.

Resurvey of the Colorado Guide Meridian, through T 32 S.

CHAINS

By 2nd. set 40.01chs.; the mean of which is
 40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
 for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S
 13 in W. half, and S 18 in E. half; from which
 A pinon 6ins.dia., bears, S.16°05'W., 223 lks. dist.,
 marked $\frac{1}{4}$ S 13 BT.
 No other tree within limits; dig pits 18x18x12 ins. N.
 and S. of post, 3ft. dist.; and raise a mound of earth,
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 From this cor., the old $\frac{1}{4}$ sec. cor., bears, N.40°00'E.,
 10 lks. dist. As no subdivision is dependent on this $\frac{1}{4}$
 sec. cor., I destroy all marks of same.
 58.00 Leave dense undergrowth. Enter heavy timber, bears NE.
 and SW.
 72.50 Leave heavy timber, bears NE. and SW. Enter dense under-
 growth.
 Difference between measurement of 80.00chs. by two sets
 of chainmen in 4 lks.; position of middle point
 By 1st. set 79.98chs.
 By 2nd. set 80.02chs.; the mean of which is
 80.00 The re-established cor. of secs. 13 and 24, heretofore
 described.
 Land, rolling.
 Soil, sandy loam, 1st. rate.
 Subsoil, clay.
 Timber, cedar and pinon.
 Undergrowth, sagebrush.
 Heavily timbered land or land covered with dense under-
 growth on 80.00chs.

October 6, 1911.

For general description see subdivision of T. 32 S., R. 24 E.

Melvin H. Felt
U.S. Transitman.

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Page

BOOK A-393

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
_____, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of _____

For certificate of assistants see book "Z" T. 32 S., R. 26 E.

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the day of 191 , I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final oath of transitman see book "L" T. 32 S., R. 26 E.

..... of the Meridian, in the State of which are represented by the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said and sworn to before me }
this day of 191 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19 191

The foregoing field notes of the survey of the retriangulation and resurvey of the Colorado Guide Meridian, Township No. 32 South, between Ranges 23 and 24 East of the Salt Lake Base and Meridian, Utah,

executed by Melvin D. Heist.

under his special instructions dated May 22, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

A large, handwritten signature in black ink, appearing to read "James N. Bell". It is positioned over the text above and extends towards the bottom right.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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FILED
FEB 10 1911

W.W.

BOOK A-393

HEX.
EX.

C.S.M.S.

FIELD NOTES

OF THE SURVEY OF THE
S U B D I V I S I O N

of

TOWNSHIP 32 SOUTH, RANGE 24 EAST.

Of the SALT LAKE BASE and Meridian,

In the State of UTAH.

EXECUTED BY

Melvin D. Heist and Eben B. Andrews.

Transitmen
 In the capacity of U.S. Surveyors, under instructions dated May 22, 1911,
 issued by the United States Surveyor General to govern surveys included in
 Group No. 12, which were approved by the Commissioner of the General Land
 Office, June 17, 1911, pursuant to authority contained in the Act of
 Congress dated , 1911.

Survey commenced October 8, 1911.

Survey completed October 16, 1911.

67-33-96 ✓ Closing 17-64-1

INDEX DIAGRAM.

Township 32 SOUTH Range 25 EAST.

6	49	5	36	1	27	3	19	5	6	1
12		27		35		26		18		8
7	46	9	34	8	25	10	17	11	7	11
15		44		33		29		17		7
18	43	10	32	14	32	11	18	16	5	15
22		42		31		23		15		6
19	41	9	31	11	22	11	14	13	4	11
40		39		30		22		13		3
20	39	7	29	20	21	7	15	20	2	21
38		37		24		20		12		2
31	36	37	26	13	20	21	10	24	2	3

Survey commenced October 8, 1911, and executed with the instrument described in book "D" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of sec. 1-2-35 and 36, heretofore described, in approximate lat. $37^{\circ}59'N.$, long. $109^{\circ}17'W.$, I set off $37^{\circ}59'N.$ on the lat. arc, $5^{\circ}42'S.$ on the decl. arc, and at 3h.48m., p.m., l.m.t., determine a meridian with the solar and mark a point thereof, on a stone firmly set in the ground 5chs. N. of the cor. At 6h.27m. p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the manual, and mark a point in the line thus determined, on a peg driven in the ground 5chs. N. of my station.

October 8, 1911.

October 9: At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$. to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h.48m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat. arc, $5^{\circ}58'S.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by a.m. and p.m. observations, defines positions for the meridians, about $0'16''$ east and west, respectively, of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 8h.30m., a.m. is $N.15^{\circ}35'W.$, the angle thus determined gives the mag.

-2-

Subdivision of T.32 S., R.2⁴ E.

CHAINS

decl. 15°35' E.

From the re-established cor. of secs. 1-2-35 and 36,

heretofore described, I run

W.0°01' S., bet. secs 35 and 36.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 35 in W. half,
and S 36 in E. half; dig pits 18x18x12 ins.N. and S. of
post 3ft. dist.; and raise a mound of earth 3 $\frac{1}{2}$ ft. base,
1 $\frac{1}{2}$ ft. high W. of cor.

40.00 Set an iron post 3ft.long, 2ins.dia., 2 $\frac{1}{4}$ ins. in the ground
for cor. of secs. 25-26-35 and 36, marked on brass cap,
T 32 S S 26 in NW.

R 2⁴ E S 25 in NE.

S 36 in SE. and

S 35 in SW. quadrant; dig pits 18x18x12 ins. in each
sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, "ft. base,
2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 20.00chs.

East, on random line bet. secs. 25 and 36.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

40.26 Intercept the E. bdy. of the Tp. at the re-established
cor. of secs. 25-30-31 and 36, heretofore described.

Thence I run

West, on true line bet. secs. 25 and 36.

Over rolling land, through dense undergrowth.

40.13 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 25 in W. half,
and S 36 in E. half; dig pits 18x18x12 ins.E. and W. of
post, 3ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base,
1 $\frac{1}{2}$ ft. high W. of cor.

Subdivision of T.32 S., R.2nd E.

CHAINS 80.26	The cor. of secs. 25-26-35 and 36. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.26chs.
40.00	N.0°01'W., bet. secs. 25 and 26. Over rolling land, through dense undergrowth. Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 26 in W. half, and S 25 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3ft.long, 2ins, dia., 24ins. in the ground for cor. of secs. 23-24-25 and 26, marked on brass cap, T 32 S S 23 in NW. R 24 E S 24 in NE. S 25 in SE.. and S 26 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$. ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
40.00	October 9: At 11h.48m., a.m., l.m.t.; I set off 6°03'S. on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is 38°01'N. Thence I run East, on random line bet. secs. 24 and 25. Set temp. $\frac{1}{4}$ sec. cor.
80.26	Intersect the E. bdy. of the Tp. 2 lks. N. of the ^{re-established} cor. of secs. 19-24-25 and 30., heretofore described.

Subdivision of T. 32 S., R. 24 E.

CHAINS

Thence I run . . .

N.89°59'W., on true line bet. secs. 2⁴ and 25.

Over rolling land, through dense undergrowth.

40.13 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 24 in N. half, and S 25 in S. half; dig pits 18x18x12 ins. E and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.26 The cor. of secs. 23-24-25 and 26.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.26chs.

N.0°01'W., bet. secs. 23 and 24.

Over rolling land, through dense undergrowth.

38.00 Enter scattering timber.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 23 in W. half, and S 24 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 13-1⁴-23 and 24, marked on brass cap, T 32 S S 1⁴ in NW.

R 24 E S 13 in NE.

S 2⁴ in SE. and

S 23 in SW. quadrant; from which

A pinon 10ins.dia., bears, N.50°30'E., 196 lks. dist., marked T 32 S R 24 E S 13 BT.

A pinon 7ins.dia., bears, S.3°18'E., 95 lks. dist., marked T 32 S R 24 E S 24 BT.

A pinon 7ins.dia., bears, S.11°35'W., 86 lks. dist., marked T 32 S R 24 E S 23 BT.

Subdivision of T.32 S., R.2^{1/4} E.

CHAINS

A pinon 6ins. dia., bears, N.81°02'W., 66 lks. dist., marked T.32 S R 2^{1/4} E S.14 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber on 80.00chs.

S.89°59' E., on random line bet. secs. 13 and 24.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.26 Intersect E. bdy. of Tp. at the re-established cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

N.89°59' W., on true line bet. secs. 13 and 24.

Over rolling land, through dense undergrowth.

20.00 Enter scattering timber.

40.13 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 in N. half, and S 2^{1/4} in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.26 The cor. of secs. 13-14-23 and 24.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber on 80.26chs.

October 9, 1911.

October 11: At 7h.47m., a.m., 1.m.t., I set off 38°02' N. on the lat. arc, 6°43'S. on the decl. arc, and at the above cor., determine a meridian with the solar. Thence I run N.0°01' W., bet. secs. 13 and 14.

Rolling descent, through scattering timber and dense

undergrowth.

Subdivision of T.32 S., R.24 E.

CHAINS

undergrowth.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 14 in W. half, and S 13 in E. half; from which

A pinon 15ins.dia., bears, N. $65^{\circ}50' E.$, 85 lks. dist., marked $\frac{1}{4}$ S 13 BT.

A pinon 8ins.dia., bears, S. $18^{\circ}40' W.$, 96 lks. dist., marked $\frac{1}{4}$ S 14 BT.

52.73 Top of sandstone ledges, 30ft. high, bear NE. and SW.

Abrupt descent.

55.85 Wash, 25ft. deep, 35ft. wide, in the bottom of South Canon, drains NE. Ascend.

61.20 Begin abrupt ascent over sandstone ledges.

65.00 Top of ledges, 35ft. high, bear NE. and SW.

Gradual ascent.

80.00 Set an iron post 3ft.long, 2ins.dia., 2 $\frac{1}{4}$ ins. in the ground for cor. of secs. 11-12-13 and 14, marked on brass cap,

T 32 S S 11 in NW.

R 24 E S 12 in NE.

S 13 in SE. and

S 14 in SW. quadrant; from which

A cedar 10ins.dia., bears, N. $3^{\circ}25' E.$, 70 lks. dist., marked T 32 S R 24 E S 12 BT.

A cedar 8ins.dia., bears, S. $23^{\circ}30' E.$, 57 lks. dist., marked T 32 S R 24 E S 13 BT.

A pinon 1 $\frac{1}{2}$ ins.dia., bears, S. $26^{\circ}00' W.$, 44 lks. dist., marked T 32 S R 24 E S 14 BT.

A pinon 10ins.dia., bears, N. $88^{\circ}30' W.$, 35 lks. dist., marked T 32 S R 24 E S 11 BT.

Land, rolling and mountainous.

Soil, sandy loam on first 45.00chs., 1st. rate, balance sandy loam, loose rock and sandstone ledges, 4th. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Mountainous land, heavily timbered land or land covered

Subdivision of T.32 S., R.2⁴ E.

CHAINS

with dense undergrowth and scattering timber on 80.00 chs.

S.89°59' E., on random line bet. secs. 12 and 13.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.28 Intersect E. bdy. of Tp. 4 lks. S. of the re-established cor. of secs. 7-12-13 and 18, heretofore described, Thence I run

✓ S.89°59' W., on true line bet. secs. 12 and 13,

Over rolling land, through dense undergrowth.

6.50 Leave dense undergrowth thru heavy timber, bears N. and S.

40.14 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 12 in N. half, and S 13 in S. half; from which

A pinon 7ins. dia., bears, N. 4°30' W., 63 lks. dist., marked $\frac{1}{4}$ S 12 BT.

A pinon 11ins. dia., bears, S. 77°30' E., 46 lks. dist., marked $\frac{1}{4}$ S 13 BT.

48.50 Top of sandstone ledges, 100ft. high, bear NE. and SW. Abrupt descent.

67.40 Wash, 30ft. deep, 45ft. wide, in the bottom of South Canon, drains NE.

Abrupt ascent over sandstone ledges.

73.80 Top of ledges, 85ft. high, bear NE. and SW. Gradual ascent.

80.28 The cor. of secs. 11-12-13 and 14.

Land, mountainous and rolling.

Soil, sandy loam on first 42.00 chs., 1st. rate, balance sandy loam, loose rock and sandstone ledges, 4th. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Mountainous land, heavily timbered land or land covered with dense undergrowth on 80.28 chs.

N.0°01' W., bet. secs. 11 and 12.

Over rolling land, through heavy timber.

Subdivision of T.32 S., R.2^W E.

CHAINS 23.45	Ravine, 75ft. deep, 250ft. wide, drains SE.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 11 in W. half, and S 12 in E. half; from which A cedar 12ins.dia., bears, N.2 ^W 50'E., 27 lks. dist., marked $\frac{1}{2}$ S 12 BT. A pinon 12ins.dia., bears, S.73 ^W 55'E., 32 lks. dist., marked $\frac{1}{2}$ S 11 BT.
74.00	Leave heavy timber, bears NE and SW. Enter scattering timber and dense undergrowth.
80.00	Set an iron post 3ft.long, 2ins.dia., 2 ¹ 2ins. in the ground for cor. of secs. 1-2-11 and 12, marked on brass cap, T 32 S S 2 in NW. R 2 ^W E S 1 in NE. S 12 in SE. and S 11 in SW. quadrant; from which A cedar 7ins.dia., bears, N.2 ^W 03'E., 145 lks. dist., marked T 32 S R 2 ^W E S 1 BT. A cedar 6ins.dia., bears, S.2 ^W 50'E., 123 lks. dist., marked T 32 S R 2 ^W E S 12 BT. A pinon 7ins.dia., bears, S.25 ^W 55'E., 223 lks. dist., marked T 32 S R 2 ^W E S 11 BT. A cedar 7ins.dia., bears, N.59 ^W 00'E., 99 lks. dist., marked T 32 S R 2 ^W E S 2 BT. Land, rolling. Soil, sandy loam and loose rock, 2 nd. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense undergrowth on 80.00chs.

October 11, 1911.

October 12: At 7h.47m., a.m., l.m.t., I set off 38°03'N. on the lat. arc, 7°06'S. on the decl. arc, and at the above cor. determine a meridian with the solar. Thence I run N.89°59'E., on random line bet. secs. 1 and 12.

Subdivision of T.32 S., R.24 E.

CHAINS	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect E. bdy. of Tp. 2 lks. S. of the re-established cor. of secs. 1-6-7 and 12, heretofore described. Thence I run S.89°58'W., on true line bet. secs. 1 and 12. Descend over mountainous land, through heavy timber.
4.60	Top of sandstone ledges, 200ft. high, bear NE. and SW. Abrupt descent.
30.70	Wash, 35ft. deep. 40ft. wide, in the bottom of South Canon, drains N. Abrupt ascent over sandstone ledges.
40.08	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 in N. half, and S 12 in S. half; from which A pinon 7ins. dia., bears, N.5°30'W., 41 lks. dist., marked $\frac{1}{4}$ S 1 BT. A pinon 15ins. dia., bears, S.10°00'W., 13 lks. dist., marked $\frac{1}{4}$ S 12 BT.
47.70	Top of ledges, 200ft. high, bear NE. and SW. Thence gradual ascent.
66.00	Leave heavy timber, bears N. and S. Enter scattering timber and dense undergrowth.
80.16	The cor. of secs. 1-2-11 and 12. Land, mountainous. Soil, sandy loam, loose rock and sandstone ledges on first 70.00chs., 4th. rate, balance sandy loam, 1st. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Mountainous land, heavily timbered land or land covered with dense undergrowth on 80.16chs.
40.00	N.0°01'W., on random line bet. secs. 1 and 2. Set temp. $\frac{1}{4}$ sec. cor.
121.03	Intersect N. bdy. of Tp. 2 ⁴ lks. W. of the re-established cor. of secs 1-2-35 and 36, heretofore described.

Subdivision of T.32 S., R.24 E.

CHAINS	
	Thence I run S.0°06'W., on true line bet. secs. 1 and 2.
	Ascend over mountainous land, through heavy timber.
76.50	Wash, 25ft. deep, 35ft. wide, drains NE.
81.03	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 2 in W. half, and S 1 in E. half; from which A pinon 12ins. dia., bears, S.70°00'E., 9 lks. diat., marked $\frac{1}{4}$ S 1 BT. A cedar 12ins. dia., bears, N.30°50'W., 103 lks. dist., marked $\frac{1}{4}$ S 2 BT.
81.50	Begin abrupt ascent over sandstone ledges, 100ft. high, bear E. and W.
82.43	Top of ledges. Thence over rolling land.
91.00	Leave heavy timber, bears E. and W. Enter dense undergrowth and scattering timber.
121.03	The cor. of secs. 1-2-11 and 12. Land, mountainous and rolling. Soil, sandy loam, loose rock and sandstone ledges on first 84.00chs, 4th. rate, balance sandy loam, 1st. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Mountainous land, heavily timbered land or land covered with dense undergrowth on 121.03chs.

October 12, 1911.

Ben B Andrews
U.S. Transitman.

Survey commenced October 8, 1911, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

Subdivision of T.32 S., R.2⁴ E.

CHAINS

At the cor. of secs. 2-3-3⁴ and 35, heretofore described, in approximate latitude $37^{\circ}59'N.$, longitude $109^{\circ}18'W.$, I set off $37^{\circ}59'N.$ on the lat. arc, $5^{\circ}42'S.$ on the decl. arc, and at 3h.48m., p.m., l.m.t., determine a meridian with the solar and mark a point thereof, on a stone firmly set in the ground 5chs. N. of the cor. At 6h.27m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with instructions in the Manual and mark a point in the line thus determined, on a peg driven in the ground 5chs, N. of my station.

October 8, 1911.

October 9: At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h.48m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat. arc, $5^{\circ}58'S.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by a.m. and p.m. observations, defines positions for the meridians, about $0^{\circ}16'$ east and $0^{\circ}11'$ west, respectively, of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m. a.m. is N. $15^{\circ}35'W.$, the angle thus determined gives the mag. decl. $15^{\circ}35'E.$.

From the cor. of secs. 2-3-3⁴ and 35, heretofore described, I run

N. $0^{\circ}01'W.$, bet. secs. 3⁴ and 35.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3⁴ in W. half, and S 35 in E. half; dig pits 18x18x12 ins. N. and S. of

Subdivision of T.32 S., R.2 $\frac{1}{4}$ E.

CHAINS	
	post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 26-27-34 and 35, marked on brass cap, T 32 S S 27 in NW. R 2 $\frac{1}{4}$ E S 26 in NE. S 35 in SE. and S 34 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
	East, on random line bet. secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.74	Intersect N. and S. line 2 lks. S. of the cor. of secs. 25-26-35 and 36. Thence I run $S.89^{\circ}59'W.$, on true line bet. secs. 26 and 35. Over rolling land, through dense undergrowth.
39.87	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 26 in N. half, and S 35 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mpund of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of the cor.
79.74	The cor. of secs 26-27-34 and 35. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush.. Land covered with dense undergrowth on 79.74chs.

Subdivision of T. 32 S., R. 24 E.

CHAINS

N. 0°01' W., bet. secs. 26 and 27.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 27 in W. half, and S 26 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 22-23-26 and 27, marked on brass cap,
T 32 S S 22 in NW.
R 24 E S 23 in NE.
S 26 in SE. and
S 27 in SW. quadrant; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00 chs.

October 9: At 11h. 48m., a.m., l.m.t., I set off 6°03'S. on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is 38°01'N. Thence I run N. 89°59'E., on random line bet. secs. 23 and 26.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.72 Intersect N. and S. line 2 lks. N. of cor. of secs 23-24-25 and 26.

Thence I run

West, on true line bet. secs. 23 and 26.

Over rolling land, through dense undergrowth.

39.86 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 23 in N. half, and S 26 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Subdivision of T.32 S., R.24 E.

CHAINS

79.72

The cor. of secs. 22-23-26 and 27.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 79.72chs.

N.0°01'W., bet. secs. 22 and 23.

Over rolling land, through dense undergrowth.

15.75

Wash, 20ft. deep, 30ft. wide, drains NE.

25.10

Enter scattering timber.

40.00

Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 22 in W. half,
and S 23 in E. half; from which

A cedar 8ins.dia., bears, N.36°30'W., 66 lks. dist.,
marked $\frac{1}{4}$ S 23 BT.

A cedar 6ins.dia., bears, S.70°02'W., 71 lks. dist.,
marked $\frac{1}{4}$ S 22 BT.

80.00

Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground
for cor. of secs. 14-15-22 and 23, marked on brass cap,
T 32 S S 15 in NW.

R 24 E S 14 in NE.

S 23 in SE. and

S 22 in SW. quadrant; from which

A cedar 10ins.dia., bears, N.38°45'E., 41 lks. dist.,
marked T 32 S R 24 E S 14 BT.

A pinon 10ins.dia., bears, S.72°22'E., 382 lks. dist.,
marked T 32 S R 24 E S 23 BT.

A cedar 9ins.dia., bears, S.39°05'W., 348 lks. dist.,
marked T 32 S R 24 E S 22 BT.

A pinon 8ins.dia., bears, N.54°40'W., 181 lks. dist.,
marked T 32 S R 24 E S 15 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Subdivision of T.32 S., R.2⁴ E.

CHAINS	Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.00chs.
40.00	East, on random line bet. secs. 1 ⁴ and 23. Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. line 4 lks. N. of the cor. of secs. 13-1 ⁴ -23 and 24. Thence I run N.89°58'W., on true line bet. secs. 1 ⁴ and 23. Over rolling land, through dense undergrowth and scatter- ing timber.
15.06	Leave scattering timber.
21.54	Wash, 15ft. deep. 25ft. wide, drains NE.
39.95	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 ⁴ in N. half, and S 23 in S. half; dig pits 18x18x12 ins. E and W. of post, 3ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
55.65	Enter scattering timber.
79.90	The cor. of secs. 14-15-22 and 23. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 79.90chs.
	N.0°01'W., bet. secs. 1 ⁴ and 15. Over rolling land, through scattering timber and dense undergrowth.
4.10	Leave scattering timber.
33.20	Enter scattering timber.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 in W. half,

Subdivision of T.32 S., R.2 $\frac{1}{4}$ E.

CHAINS	
	and S 1 $\frac{1}{4}$ in E. half; from which A pinon 8ins.dia., bears, S.43°45'E., 127 lks. dist., marked $\frac{1}{4}$ S 1 $\frac{1}{4}$ BT. A cedar 7ins.dia., bears, S.37°30'W., 81 lks. dist., marked $\frac{1}{4}$ S 15 BT.
44.70	Wash, 15ft. deep, 25ft. wide, drains NE.
45.20	Wagon road, Monticello to South Canon, course NE. and SW.
75.15	Leave dense undergrowth. Enter heavy timber bears NW. and SE.
80.00	Set an iron post 3ft.long, 2ins.dia., 2 $\frac{1}{2}$ ins. in the ground for cor. of secs. 10-11-1 $\frac{1}{4}$ and 15, marked on brass cap, T 32 S S 10 in NW. R 2 $\frac{1}{4}$ E S 11 in NE. S 1 $\frac{1}{4}$ in SE. and S 15 in SW. quadrant; from which A pinon 13ins.dia., bears, N.66°10'E., 12 lks. dist., marked T 32 S R 2 $\frac{1}{4}$ E S 11 BT. A pinon 9ins.dia., bears, S.42°27'E., 72 lks. dist., marked T 32 S R 2 $\frac{1}{4}$ E S 14 BT. A pinon 8ins.dia., bears, S.43°10'W., 45 lks. dist., marked T 32 S R 2 $\frac{1}{4}$ E S 15 BT. A pinon 8ins.dia., bears, N.44°50'W., 74 lks. dist., marked T 32 S R 2 $\frac{1}{4}$ E S 10 BT.
	Land, rolling.
	Soil, sandy loam, 2nd. rate.
	Subsoil, clay.
	Timber, cedar and pinon.
	Undergrowth, sagebrush.
	Heavily timbered land or land covered with dense under-growth or 80.00chs.

October 9, 1911.

Melvin H. Heist
U.S. Transitman.

October 11: For solar observation see page 5 of these notes. At 11h.47m., a.m., l.m.t., I set off 6°48'S. on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is 38°03'N. Thence I run

Subdivision of T.32 S., R.24 E.

CHAINS	S. $89^{\circ}58' E.$, on random line bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. line 7 lks. S. of the cor. of secs. 11-12-13 and 14. Thence I run $S.79^{\circ}59' W.$, on true line bet. secs. 11 and 14. Over rolling land, through heavy timber.
33.80	Wash, 15ft. deep, 25ft. wide, drains S.
39.95	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 11 in N. half, and S 1 $\frac{1}{4}$ in S. half; from which A pinon 10ins. dia., bears, $N.57^{\circ}40' W.$, 24 lks. dist., marked $\frac{1}{4}$ S 11 BT. A pinon 21ins. dia., bears, $S.30^{\circ}25' E.$, 19 lks. dist., marked $\frac{1}{4}$ S 1 $\frac{1}{4}$ BT.
79.90	The cor. of secs. 10-11-1 $\frac{1}{4}$ and 15. Land, rolling. Soil, sandy loam and loose rock, 2nd. rate. Subsoil, sandstone. Timber, cedar and pinon. Heavily timbered land on 79.90chs.

October 11, 1911.

October 12: For solar observation see page 8 of these notes. At 11h.47m., a.m., l.m.t., I set off $7^{\circ}11'S.$ on the decl. arc, and at the cor. of secs. 10-11-1 $\frac{1}{4}$ and 15, observe the sun on the meridian, the resulting lat. is $38^{\circ}02' N.$ Thence I run

	N. $0^{\circ}01' W.$, bet. secs. 10 and 11. Over rolling land, through heavy timber.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 in W. half, and S 11 in E. half; from which A cedar 16ins. dia., bears, $N.53^{\circ}30' E.$, 168 lks. dist., marked $\frac{1}{4}$ S 11 BT. A cedar 8ins. dia., bears, $S.79^{\circ}35' W.$, 162 lks. dist., marked $\frac{1}{4}$ S 10 BT.
52.55	Wash, 10ft. deep, 20ft. wide, drains SE.

Subdivision of T.32 S., R.2⁴ E.

CHAINS 80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 2-3-10 and 11, marked on brass cap. T 32 S S 3 in NW. R 24 E S 2 in NE. S 11 in SE. and S 10 in SW. quadrant; from which A cedar 14ins.dia., bears, N.89°58'E., 38 lks. dist., marked T 32 S R 24 E S 2 BT. A cedar .7ins.dia., bears, S.44°30'E., 56 lks' dist., marked T 32 S R 24 E S 11 BT. A cedar 7ins.dia., bears, S.46°35'W., 85 lks. dist., marked T 32 S R 24 E S 10 BT. A cedar 6ins.dia., bears, N.79°05'W., 51 lks. dist., marked T 32 S R 24 E S 3 BT. Land, rolling. Soil, sandy loam, 2nd. rate. Subsoil, sandstone. Timber, cedar and pinon. Heavily timbered land on 80.00chs.
40.00	N.89°59'E., on random line bet. secs. 2 and 11. Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect N. and S. line 9 lks. N. of the cor. of secs. 1-2-11-and 12. Thence I run N.89°57'W., on true line bet. secs. 2 and 11. Over rolling land, through dense undergrowth and scattering timber.
39.96	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 2 in N. half, and S 11 in S. half; from which A cedar 8ins.dia., bears, N.26°35'E., 56 lks. dist., marked $\frac{1}{4}$ S 2 BT. A cedar 12ins.dia., bears, S.49°32'W., 53 lks. dist., marked $\frac{1}{4}$ S 11 BT.
79.92	The cor. of secs. 2-3-10 and 11:

Subdivision of T.32 S., R.24 E.

CHAINS

Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, sandstone.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Land covered with dense undergrowth and scattering timber
on 79.92chs.

October 12, 1911.

October 13: For solar observation see page 24 of these notes. From the cor. of secs. 2-3-10 and 11, I run N.0°01'W., on random line bet. secs. 2 and 3.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
120.94 Intersect N. bdy. of Tp. 24 lks. W. of the re-established cor. of secs. 2-3-34 and 35, heretofore described.
Thence I run
S.0°06'W., on true line bet. secs. 2 and 3.
Over rolling land, through heavy timber.
Leave heavy timber, bears E. and W. Enter scattering timber and dense undergrowth.
10.30 Wash, 10ft. deep, 25ft. wide, drains SE.
77.00 Leave scattering timber.
80.24 Wash, 15ft. deep, 20ft. wide, drains E.
80.94 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 in W. half, and S 2 in E. half; dig pits 18x18x12 ins N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
90.00 Enter scattering timber.
120.94 The cor. of secs. 2-3-10 and 11.
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, sandstone.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Heavily timbered land or land covered with dense undergrowth or scattering timber on 120.94chs.

Subdivision of T.32 S., R.24 E.

CHAINS

October 13, 1911.

Eben B. Andrews
U.S. Transitman.

	October 10: At 7h. 47m., a.m., l.m.t., I set off $37^{\circ}59'N$. on the lat. arc, $6^{\circ}21'S$. on the decl. arc, and at the cor. of secs. 3-4-33 and 34, which is a sandstone 4x8x12 ins. above ground, heretofore described, determine a meridian with the solar. Thence I run N. $0^{\circ}02'W$., bet. secs. 33 and 34. Over rolling land, through dense undergrowth. 40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 in W. half, and S 34 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. 80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 27-28-33 and 34, marked on brass cap, T 32 S S 28 in NW. R 24 E S 27 in NE. S 34 in SE. and S 33 in SW. quadrant; dig pits 18x18x12 ins. in each sec $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
40.00	S. $89^{\circ}57'E$., on random line bet. secs. 27 and 34. Set temp. $\frac{1}{4}$ sec. cor.
80.44	Intersect N. and S. line 4 lks. S. of the cor. of secs. 26-27-34 and 35. Thence, I run N. $89^{\circ}59'W$., on true line bet. secs. 27 and 34.

Subdivision of T. 32 S., R. 24 E.

CHAINS	Over rolling land, through dense undergrowth.
40.22	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 27 in N. half, and S 34 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
80.44	The cor. of secs. 27-28-33 and 34. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.44chs.
	N. 0°02' W., bet. secs. 27 and 28. Over rolling land, through dense undergrowth.
40.00	Set an iron post 3ft.long, 1 in.dia., 26in. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 in W. half, and S 27 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3ft.long, 2ins, dia., 2 $\frac{1}{4}$ ins. in the ground for cor. of secs. 21-22-27 and 28, marked on brass cap, T 32 S S 21 in NW. R 2 $\frac{1}{4}$ E S 22 in NE. S 27 in SE. and S 28 in SW. quadrant; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
	October 10: At 11h.47m., a.m., l.m.t., I set off 6°25'S. on

Subdivision of T.32 S., R.2⁴ E.

CHAINS	the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is 38°01'N. Thence I run S.89°59'E.,on random line bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.44	Intersect N. and S. line 4 lks. N. of the cor. of secs. 22-23-26 and 27. Thence I run N.89°57'W.,on true line bet. secs 22 and 27. Over rolling land, through dense undergrowth.
40.22	Set an iron post 3ft.long,1 in.dia.,26ins. in the ground for $\frac{1}{4}$ sec. cor.,marked on brass cap, $\frac{1}{4}$ S 22 in N. half, and S 27 in S. half; dig pits 18x18x12 ins. E. and W. of post,3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
80.44	The cor. of secs. 21-22-27 and 28. Land,rolling. Soil,sandy loam, 1st. rate. Subsoil,clay. No timber. Undergrowth,sagebrush. Land covered with dense undergrowth on 80.44chs.
	N.0°02'W.,bet. secs. 21 and 22. Over rolling land, through dense undergrowth.
40.00	Set an iron post 3ft.long,1 in.dia.,26ins. in the ground for $\frac{1}{4}$ sec. cor.,marked on brass cap, $\frac{1}{4}$ S 21 in W. half, and S 22 in E. half; dig pits 18x18x12 ins. N. and S. of post,3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
71.25	Enter scattering timber.
80.00	Set an iron post 3ft.long,2ins.dia.,2 $\frac{1}{2}$ ins. in the ground for cor. of secs. 15-16-21 and 22,marked on brass cap, T 34 S S 16 in NW. R 2 ⁴ E S 15 in NE. S 22 in SE. and S 21 in SW. quadrant;from which

Subdivision of T. 32 S., R. 2⁴ E.

CHAINS

A cedar 7ins.dia., bears, N.68°00'E., 117 lks. dist., marked T 32 S R 2⁴ E S 15. BT.

A cedar 5ins.dia., bears, S.37°00'E., 16⁴ lks. dist., marked T 32 S R 2⁴ E S 22 BT.

A cedar 7ins.dia., bears, S.28°20'W., 20⁴ lks. dist., marked T 32 S R 2⁴ E S 21 BT.

A cedar 8ins.dia., bears, N.89°58'W., 188 lks. dist., marked T 32 S R 2⁴ E S 16 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber on 80.00chs.

S.89°57'E., on random line bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.40 Intersect N. and S. line 7 lks. S. of the cor. of secs. 14-15-22 and 23.

Thence I run

West, on true line bet. secs. 15 and 22.

over rolling land, through scattering timber and dense undergrowth.

11.05 Leave scattering timber.

40.20 Set an iron post 3ft.long, 1 in.dia., 26ins, in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 in N. half, and S 22 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

69.15 Enter scattering timber.

80.40 The cor. of secs. 15-16-21 and 22.

Land, rolling.

Soil, sandy loam and loose rock, 2nd. rate.

Subsoil, clay and gravel.

Timber, cedar and pinon.

Subdivision of T. 32 S., R. 2⁴ E.

CHAINS	<p>Undergrowth, sagebrush.</p> <p>Land covered with dense undergrowth or scattering timber on 80.40chs.</p>
	October 10, 1911. <i>W. H. Heist</i> U.S. Transitman.
	<p>October 13: At 7h. 46m., a.m., l.m.t., I set off 38°02' N. on the lat. arc, 7°28'S. on the decl. arc, and at the cor. of secs. 15-16-21 and 22, determine a meridian with the solar. Thence I run</p> <p>N. 0°02' W., bet. secs. 15 and 16.</p> <p>Over rolling land, through scattering timber and dense undergrowth.</p>
4.00	Leave scattering timber.
19.50	Wash, 15ft. deep, 20ft. wide, drains E.
21.80	Wagon road, Monticello to South Canon, course E. and W.,
29.00	Enter scattering timber.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 in W. half, and S 15 in E. half; dig pits 18x18x12 ins N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3ft. long, 2ins. dia., 2 $\frac{1}{4}$ ins. in the ground for cor. of secs. 9-10-15 and 16, marked on brass cap, T 32 S S 9 in NW.
	R 2 ⁴ E S 10 in NE.
	S 15 in SE. and
	S 16 in SW. quadrant; from which
	A pinon 15ins. dia., bears, N. 66°20' W., 152 lks. dist., marked T 32 S R 2 ⁴ E S 9 BT.
	No other trees within limits; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.
	Land, rolling.
	Soil, sandy loam, 1st. rate.
	Subsoil, clay.

Subdivision of T.32 S., R.24 E.

CHAINS	Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.00chs.
40.00	East on random line bet. secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.
80.50	Intersect N. and S. line $\frac{1}{4}$ lks. S. of the cor. of secs. 10-11-1 $\frac{1}{4}$ and 15. Thence I run S.89°58'W., on true line bet. secs. 10 and 15. Over rolling land, through heavy timber.
36.00	Leave heavy timber, bears NW. and SE. Enter dense undergrowth.
40.25	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 in N. half, and S 15 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
48.80	Leave dense undergrowth. Enter heavy timber, bears NW. and SE.
69.00	Leave heavy timber, bears NW. and SE. Enter dense undergrowth and scattering timber.
80.50	The cor. of secs. 9-10-15 and 16. Land, rolling. Soil, sandy loam, 2nd. rate. Subsoil, clay and gravel. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense undergrowth and scattering timber on 80.50chs.
22.50	N.0°02'W., bet. secs. 9 and 10. Over rolling land, through dense undergrowth and scattering timber.
40.00	Leave dense undergrowth. Enter heavy timber, bears NW. and SE. Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground

Subdivision of T.32 S., R.24 E.

CHAINS

for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9 in W. half,
and S 10 in E. half; from which

A cedar 8ins.dia., bears, N. $67^{\circ}00'$ E., 11 lks. dist.,
marked $\frac{1}{4}$ S 10 BT.

A cedar 8ins.dia., bears, West, 26 lks. dist., marked
 $\frac{1}{4}$ S 9 BT.

44.00 Leave heavy timber, bears NW. and SE. Enter dense under-growth.

67.50 Leave dense undergrowth. Enter heavy timber, bears NW. and SE.

80.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground
for cor. of secs. 3-4-9 and 10, marked on brass cap,

T 32 S S 4 in NW.

R 24 E S 3 in NE.

S 10 in SE. and

S 9 in SW. quadrant; from which

A cedar 11ins.dia., bears, N. $14^{\circ}28'$ E., 138 lks. dist.,
marked T 32 S R 24 E S 3 BT.

A cedar 6ins.dia., bears, S. $26^{\circ}02'$ E., 54 lks. dist.,
marked T 32 S R 24 E S 10 BT.

A pinon 6ins.dia., bears, S. $72^{\circ}32'$ W., 202 lks. dist.,
marked T 32 S R 24 E S 9 BT.

A pinon 7ins.dia., bears, N. $18^{\circ}05'$ W., 91 lks. dist.,
marked T 32 S R 24 E S 4 BT.

Land, rolling.

Soil, sandy loam, 2nd. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-growth on 80.00chs.

October 13: At 11h.47m., a.m., l.m.t., I set off $7^{\circ}33'$ S. on
the decl. arc, and at the above cor., observe the sun on
the meridian, the resulting lat. is $38^{\circ}03'$ N. Thence I run
N. $29^{\circ}58'$ E., on random line bet. secs. 3 and 10.

Subdivision of T.32 S., R.2⁴ E.

CHAINS 40.00	Set temp. $\frac{1}{4}$ sec cor.
40.50	Intersect N. and S. line at the cor. of secs. 2-3-10 and 11. Thence I run $S.89^{\circ}58'W.$, on true line bet. secs. 3 and 10. Over rolling land, through heavy timber.
8.00	Leave heavy timber, bears N. and S. Enter dense undergrowth and scattering timber.
21.00	Leave dense undergrowth. Enter heavy timber, bears N. and S.
40.25	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 in N. half, and S 10 in S. half; from which A pinon 12ins.dia., bears, $N.53^{\circ}10'E.$, 61 lks. dist., marked $\frac{1}{4}$ S 3 BT. A pinon 7ins.dia., bears, $S.34^{\circ}05'E.$, 13 lks. dist., marked $\frac{1}{4}$ S 10 BT.
46.00	Leave heavy timber, bears N. and S. Enter dense undergrowth.
58.60	Leave dense undergrowth. Enter heavy timber, bears N. and S.
80.50	The cor. of secs. 3-4-9 and 10. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense undergrowth on 80.50 chs.

October 13, 1911.

October 14: For solar observation see page 34 of these notes. At 11h.46m., a.m., i.m.t., I set off $7^{\circ}56'S.$ on the decl. arc, and at the cor. of secs. 3-4-9 and 10, observe the sun on the meridian, the resulting lat. is $38^{\circ}03'N.$ Thence I run

$N.0^{\circ}02'W.$, on random line bet. secs. 3 and 4.

Subdivision of T.32 S., R.2⁴ E.

- CHAINS
40.00 Set temp. $\frac{1}{4}$ sec. cor.
120.81 Intersect N. bdy. of Tp. 59 lks. W. of the re-established cor. of secs. 3-4-33 and 34, heretofore described.
Thence I run
S.0°15'W., on true line bet. secs. 3 and 4.
Over rolling land, through dense undergrowth.
80.81 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 34 in W. half, and S 3 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
87.00 Wash, 15ft. deep, 25ft. wide, drains NE.
100.80 Enter scattering timber.
120.81 The cor. of secs. 3-4-9 and 10.
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, sandstone.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Land covered with dense undergrowth or scattering timber on 120.81chs.

October 14, 1911.

- October 10: At 7h. 47m., a.m., l.m.t., I set off 37°59'N. on the lat. arc, 6°21'S. on the decl. arc, and at the re-established cor. of secs. 4-5-32 and 33, heretofore described, determine a meridian with the solar. Thence I run N.0°03'W., bet. secs. 32 and 33.
Over rolling land, through dense undergrowth.
40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 in W. half, and S 33 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 28-29-32 and 33, marked on brass cap, T 32 S S 29 in NW.

Subdivision of T.32 S., R.24 E.

CHAINS

R 24 E S 28 in NE.

S 33 in SE., and

S 32 in SW. quadrant; dig pits 18x18x12 ins. in each sec.
5½ ft. dist.; and raise a mound of earth, 4ft. base, 2ft.
high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

S.89°58'E., on random line bet. secs. 28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect N. and S. line at the cor. of secs. 27-28-33
and 34.

Thence I run

N.89°58'W., on true line bet. secs. 28 and 33.

Over rolling land, through dense undergrowth.

40.05 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 in N. half,
and S 33 in S. half; dig pits 18x18x12 ins. E. and W. of
post, 3ft. dist.; and raise a mound of earth, 3½ ft. base,
1½ ft. high N. of cor:

80.10 The cor. of secs. 28-29-32 and 33.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth.

N.0°03'W., bet. secs. 28 and 29.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 29 in W. half,
and S 28 in E. half; dig pits 18x18x12 ins. N. and S. of

Subdivision of T. 32 S., R. 24 E.

CHAINS

- post, 3ft. dist.; and raise a mound of earth, $\frac{3}{4}$ ft. base, 1 ft. high N. of cor.
- 80.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 20-21-28 and 29, marked on brass cap,
T 32 S S 20 in NW.
R 24 E S 21 in NE.
S 28 in SE. and
S 29 in SW. quadrant; dig pits 18x18x12 ins. in each sec.
5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, $\frac{3}{4}$ ft. base, 2ft. high W. of cor.
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, clay.
No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 80.00 chs.

October 10: At 11h. 47m., a.m., l.m.t., I set off 6°25'S. on the decl. arc. and at the above cor., observe the sun on the meridian, the resulting lat. is 38°01'N. Thence I run S.89°58'E., on random line bet. secs 21 and 28.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect N. and S. line 9 lks. S. of the cor. of secs. 21-22-27 and 28.

Thence I run

S.89°58'W., on true line bet. secs. 21 and 28.

Over rolling land, through dense undergrowth.

- 80.05 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 21 in N. half, and S 28 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $\frac{3}{4}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.

- 80.10 The cor. of secs. 20-21-28 and 29.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Subdivision of T.32 S., R.2⁴ E.

CHAINS	
	No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.10chs.
40.00	N.0°03'W., bet. secs. 20 and 21. Over rolling land, through dense undergrowth. Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 20 in W. half, ans S 21 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
56.80	Wagon road, Monticello to South Canon, course NE. and SW.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 16-17-20 and 21, marked on brass cap, T 32 S S 17 in NW. R 24 E S 16 in NE. S 21 in SE. and S 20 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, "ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 2nd. rate. Subsoil, clay and gravel. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
40.00	N.89°58'E., on random line bet. secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect N. and S. line $\frac{1}{4}$ lks. S. of the cor. of secs. 15-16-21 and 22. Thence I run S.89°56'W., on true line bet. secs. 16 and 21. Over rolling land, through dense undergrowth and scattering timber.
6.00	Leave scattering timber.
40.05	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec, cor., marked on brass cap, $\frac{1}{4}$ S 16 in N. half,

Subdivision of T.32 S., R.24 E.

CHAINS	and S 21 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
61.20	Wagon road, Monticello to South Cañon, course NE. and SW.
80.10	The cor. of secs. 16-17-20 and 21. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.10chs.
	October 10, 1911.
	<u>Ben B Andrews</u> U.S. Transitman.
40.00	October 13: At 7h. 47m., a.m., l.m.t., I set off $38^{\circ}02'N$. on the lat. arc, $7^{\circ}28'S$. on the decl. arc, and at the above cor., determine a meridian with the solar. Thence I run $N.0^{\circ}03'W.$, bet. secs. 16 and 17. Over rolling land, through dense undergrowth. Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 17 in W. half, and S 16 in E. half; from which A cedar 6ins. dia., bears, $N.47^{\circ}15'W.$, $29\frac{1}{4}$ lks. dist., marked $\frac{1}{4}$ S 17 BT. No other tree within limits; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
50.95	Leave dense undergrowth. Enter heavy timber, bears NE. and SW.
80.00	Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 8-9-16 and 17, marked on brass cap, T 32 S S 8 in NW. R 24 E S 9 in NE. S 16 in SE. and S 17 in SW. quadrant; from which A pinon 6ins. dia., bears, $N.56^{\circ}45'E.$, 21 lks. dist.,

Subdivision of T.32 S., R.24 E.

CHAINS	marked T 32 S R 24 E S 9 BT. AA cedar 5ins.dia., bears, S.39°45'E., 45 lks. dist., marked T 32 S R 24 E S 16 BT. A pinon 9ins.dia., bears, S.44°15'W., 56 lks. dist., marked T 32 S R 24 E S 17 BT. A pinon 7ins.dia., bears. N.41°10'W., 67 lks. dist., marked T 32 S R 24 E S 8 BT. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land orrland covered with dense under-growth on 80.00chs.
40.00	N.89°56'E., on random line bet. secs. 9 and 16. Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line 2 lks. S. of the cor. of secs. 9-10-15 and 16. Thence I run
16.00	S.89°55'W., on true line bet. secs. 9 and 16. Over rolling land, through dense undergrowth and scattering timber.
38.95	Leave scattering timber.
40.06	Enter scattering timber. Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9 in N. half, and S 16 in S. half; from which
	A cedar 7ins.dia., bears, N.54°45'E., 74 lks. dist., marked $\frac{1}{4}$ S 9 BT.
	A cedar 10ins.dia., bears, S.61°15'E., 121 lks. dist., marked $\frac{1}{4}$ S 16 BT.
55.00	Leave scattering timber.
64.65	Enter scattering timber.
73.90	Leave scattering timber.
78.00	Leave dense undergrowth. Enter heavy timber, bears NW.

Subdivision of T.32 S., R.24 E.

CHAINS	and SE.
80.12	The cor.. of secs.. 8-9-16 and 17. Land, rolling. Soil, sandy loam, 2nd. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with scattering timber or dense undergrowth on 80.12chs.
	October 13, 1911. <i>Melvin H. Heis</i> U.S. Transitman.
15.00	October 14: At 7h. 46m., a.m., l.m.t., I set off $38^{\circ}03'N$. on the lat. arc, $7^{\circ}51'S$. on the decl. arc, and at the above cor., determine a meridian with the solar. Thence I run N. $0^{\circ}03'W$., bet. secs. 8 and 9. Over rolling land, through heavy timber.
40.00	Leave heavy timber, bears NW, and SE. Enter scattering timber and dense undergrowth. Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 8 in W.half, and S 9 in E. half; from which A cedar 6ins.dia., bears, $N.52^{\circ}25'E$., 10 lks. dist., marked $\frac{1}{4}$ S 9 BT. A pinon 7ins.dia., bears, $S.50^{\circ}40'W$., 14 lks. dist., marked $\frac{1}{4}$ S 8 BT.
57.00	Leave timber.
79.00	Enter scattering timber.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 4-5-8 and 9, marked on brass cap, T 32 S S 5 in NW. R 24 E S 4 in NE. S 9 in SE. and S 8 in SW. quadrant; from which A pinon 5ins.dia., bears, $N.65^{\circ}50'E$., 38 lks. dist., marked T 32 S R 24 E S 4 BT.

-57-

Subdivision of T.32 S., R.24 E.

CHAINS

A pinon 15ins.dia.,bears, S. $32^{\circ}06'W.$,72 lks. dist.,
marked T 32 S R 24 E S 9 BT.

A pinon 6ins.dia.,bears, S. $30^{\circ}00'W.$,54 lks. dist.,
marked T 32 S R 24 E S 2 BT.

A pinon 5ins.dia.,bears, N. $70^{\circ}30'W.$,7 lks. dist.,
marked T 32 S R 24 E S 5 BT.

Land,rolling.

Soil,sandy loam, 1st. rate.

Subsoil,sandstone.

Timber,cedar and pinon.

Undergrowth,sagebrush.

Heavily timbered land or land covered with dense undergrowth on 80.00chs.

N. $89^{\circ}55'E.$,on random line bet. secs. 4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect N. and S. line 4 lks. N. of the cor. of secs.
3-4-9 and 10.

Thence I run

S. $89^{\circ}57'W.$,on true line bet. secs. 4 and 9.

Over rolling land, through scattering timber and dense undergrowth.

40.05 Set an iron post 3ft.long,1 in.dia.,26ins. in the ground
for $\frac{1}{4}$ sec. cor.,marked on brass cap, $\frac{1}{4}$ S 4 in N. half,
and S 9 in S. half;from which

A cedar 6ins.dia.,bears, N. $43^{\circ}15'E.$,17 lks. dist.,
marked $\frac{1}{4}$ S 4 BT.

A cedar 7ins.dia.,bears, S. $66^{\circ}40'E.$,20 lks. dist.,
marked $\frac{1}{4}$ S 9 BT.

80.10 The cor. of secs. 4-5-8 and 9.

Land,rolling.

Soil,sandy loam, 1st. rate.

Subsoil,sandstone.

Timber,cedar and pinon.

Undergrowth,sagebrush.

Land covered with dense undergrowth and scattering timber
on 80.10chs.

Subdivision of T. 32 S., R. 24 E.

CHAINS

- N. $0^{\circ}03'W.$, on random line bet. secs. 4 and 5.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 120.95 Intersect N. bdy. of Tp. 73 lks. W. of the re-established cor. of secs. 4-5-32 and 33, heretofore described. Thence I run
- S. $0^{\circ}18'W.$, on true line bet. secs. 4 and 5.
- Over rolling land, through heavy timber.
- 38.00 Leave heavy timber, bears E. and W. Enter dense under-growth and scattering timber.
- 80.95 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 in W. half, and S 4 in E. half; from which
- A cedar 1 $\frac{1}{4}$ ins. dia., bears, S. $12^{\circ}10'E.$, 90 lks. dist., marked $\frac{1}{4}$ S 4 BT.
- No other tree within limits; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. high, $1\frac{1}{2}$ ft. base W. of cor.
- 120.95 The cor. of secs. 4-5-8 and 9.
- Land, rolling.
- Soil, sandy loam, 1st. rate.
- Subsoil, sandstone.
- Timber, cedar and pinon.
- Undergrowth, sagebrush.
- Heavily timbered land or land covered with dense under-growth and scattering timber on 120.95chs.

October 14, 1911.

Eben B. Andrew
U.S. Transitman.

October 11: At 7h. 47m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat. arc, $6^{\circ}43'S.$ on the decl. arc, and at the cor. of secs. 5-6-31 and 32, which is a sandstone 5x10x22 ins. above ground, heretofore described, determine a meridian with the solar. Thence I run

N. $0^{\circ}03'W.$, bet. secs. 31 and 32.

Over rolling land, through scattering timber and dense

CHAINS	undergrowth.
.06	Wire fence, bears E. and W.
4.20	Wagon road, course NE and SW.
22.55	Leave scattering timber.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 31 in W. half, and S 32 in E. half; from which A lone cedar 5ins.dia., bears N. 22°00' W., 264 lks. dist., marked $\frac{1}{4}$ S 31 BT. No other tree within limits; dig pits 18x18x12ins. N. and S. of post, 3ft.dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base. $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 29-30-31 and 32, marked on brass cap, T 32 S S 30 in NW, R 24 E S 29 in NE. S 32 in SE. and S 31 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.00chs.
40.00	East, on random line bet. secs. 29 and 32. Set temp. $\frac{1}{4}$ sec. cor.
80.30	Intersect N. and S. line 7 lks. S. of the cor. of secs. 28-29-32 and 33. Thence I run $S.89^{\circ}57' W.$, on true line bet. secs. 29 and 32. Over rolling land, through dense undergrowth.
40.15	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 29 in N. half,

Subdivision of T.32 S., R.2⁴ E.

CHAINS

and S 32 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.30 The cor. of secs. 29-30-31 and 32.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.30chs.

October 11: At 11h.47m., a.m., l.m.t., I set off $6^{\circ}48' S.$ on the decl. arc, and at the cor. of secs. 29-30-31 and 32, observe the sun on the meridian, the resulting lat. is $38^{\circ}00' N.$

Knowing from a retracement of the Colorado Guide Meridian that the line bet. secs. 30 and 31 will not close within limits on the Colorado Guide Meridian, I run

$N.89^{\circ}58' W.$, on true line bet. secs. 30 and 31.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 in N. half, ans S 31 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

77.87 Intersect the Colorado Guide Meridian, at $S.0^{\circ}48' W.$, 1.18 chs. from the re-established cor. of secs. 25 and 36, T.32 S., R23 E., heretofore described.

Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for closing cor. of secs. 30 and 31, marked on brass cap, T 32 S in N. half,

R 23 E S 25 S 36 CC in W. half,

R 24 E S 30 in NE. and

S 31 in SE. quadrant; dig pits 24x18x12 ins. crosswise on each line, N. and S., 3ft. and E. $7\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high E. of cor.

Land, rolling.

Subdivision of T.32 S., R.2^W E.

-39-

CHAINS

	Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 77.87chs.
40.00	N.0°03'W., bet. secs. 29 and 30. Over rolling land, through dense undergrowth. Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 in W. half, and S 29 in E.half; dig pits 18x18x12 ins. N. and S. of pcst, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
71.18	Wagon road, Monticello to South Canon, course NE. and SW.
80.00	Set an iron post 3ft.long, 2ins.dia., 2 ¹ / ₂ ins. in the ground for cor. of secs. 19-20-29 and 30, marked on brass cap, T 32 S S 19 in NW. R 24 E S 20 in NE! S 29 in SE. and S 30 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
40.00	N.89°57'E., on random line bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor.
80.26	Intersect N. and S. line 20 lks. N. of the cor. of secs. 20-21-28 and 29. Thence I run.
40.13	N.89°54'W., on true line bet. secs. 20 and 29. Over rolling land, through dense undergrowth. Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 20 in W. half,

Subdivision of T.32 S., R.24 E.

CHAINS	
	and S 29 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $\frac{3}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
68.78	Wagon road, Monticello to South Canon, course NE. and SW.
80.26	The cor. of secs. 19-20-29 and 30. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.26chs.
	October 11, 1911.
40.00	October 12: At 7h. 47m., a.m., l.m.t., I set off $38^{\circ}01'W.$ on the lat. arc, $7^{\circ}06'S.$ on the decl. arc, and at the cor. of secs. 19-20-29 and 30, determine a meridian with the solar Knowing from a retracement of the Colorado Guide Meridian that the line bet. secs. 19 and 30 will not close within limits on the Colorado Guide Meridian, I run N. $89^{\circ}58'W.$, on true line bet. secs. 19 and 30. Over rolling land, through dense undergrowth. Set an iron post 3ft. long, 1 in. dia., .26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19. in N. half, and S 30 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $\frac{3}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
61.20	Wash, 20ft. deep, 35ft. wide, drains SW.
65.15	Leave dense undergrowth. Enter heavy timber, bears NE. and SW.
76.63	Intersect the Colorado Guide Meridian, at S. $0^{\circ}48'W.$, 362 chs. for the cor. of secs. 19, 24, 25, and 30, $\frac{3}{4}$ chs. heretofore described. 18x12x12 ins. above ground, marked and witnessed as described by the surveyor general. Set an iron post 3ft. long, 2ins. dia., .24ins. in the ground for closing cor. of secs. 19 and 30, marked on brass cap, T 32 S in N. half, R 23 E S 24 S 25 CC in W. half,

Subdivision of T. 32 S., E. 24 E.

CHAINS

R 2⁴ E S 19 in NE. and

S 30 in SE. quadrant; from which

A cedar 16ins.dia., bears, N. 32° 40' E., 1⁴ lks. dist., marked T 32 S R 24 E S 19 BT.

A cedar 11ins.dia., bears, S. 35° 15' E., 93 lks. dist., marked T 32 S R 24 E S 30 BT.

I destroy all marks on the cor. of secs. 19-24-25 and 30 that pertain to R 24 E.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense undergrowth on 76.63chs.

N. 0° 03' W., bet. secs. 19 and 20.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 in W. half, ans S 20 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

57.35 Enter scattering timber.

80.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 17-18-19 and 20, marked on brass cap, T 32 S S 18 in NW.

R 2⁴ E S 17 in NE.

S 20 in SE. and

S 19 in SW. quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Subdivision of T.32 S., R.2^W E.

CHAINS	
	Land covered with dense undergrowth or scattering timber on 80.00chs.
	October 12: At 11h.47m., a.m., l.m.t., I set off 7°11' S. on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is 38°02' N. Thence I run S.89°54'E., on random line bet. secs. 17 and 20.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.36	Intersect N. and S. line 9 lks. S. of the cor. of secs. 16-17-20 and 21. Thence I run N.89°58'W., on true line bet. secs. 17 and 20. Over rolling land, through dense undergrowth.
40.18	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 17 in N. half, and S 20 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
60.22	Enter scattering timber.
80.36	The cor. of secs. 17-18-19 and 20. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.36chs.
	Knowing from retracement of the Colorado Guide Meridian, that the line bet. secs. 18 and 19 will not close within limits on the Colorado Guide Meridian, I run N.89°58'W., on true line bet. secs. 18 and 19. Over rolling land, through dense undergrowth and scattering timber.
19.35	Leave scattering timber.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground

Subdivision of T.32 S., R.24 E.

-15-

CHAINS	for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18 in N. half, and S 19 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
46.10	Enter scattering timber.
70.80	Leave scattering timber.
76.20	Wagon road, course N. and S.
76.65	Intersect Colorado Guide Meridian at S.0°09' E., 3.85chs. from the re-established cor. of secs. 13 and 24, T.32 S., R.23 E., heretofore described. Set an iron post 3ft.long, 2ins, dia., 2 $\frac{1}{4}$ ins. in the ground for closing cor. of secs. 18 and 19, marked on brass cap, T 32 S in N. half, R 23 E S 13 S 24 CC in W. half, R 24 E S 18 in NE. and S 19 in SW. quadrant; dig pits 24x18x12 ins., crosswise on each line, N. and S. 3ft., and E. $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high E. of cor.
	Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 76.65chs.
	October 12, 1911.

October 13: For solar observation see page 32 of these notes. From the cor. of secs. 17-18-19 and 20, I run N.0°03' W., bet. secs. 17 and 18.

Over rolling land, through dense undergrowth and scattering timber;

- 4.80 Leave dense undergrowth. Enter heavy timber, bears E. and W.
- 12.00 A cedar tree, 1 $\frac{1}{4}$ ins.dia., on line, marked 2 notches on N. and S.
- 20.55 Leave heavy timber, bears NW. and SE. Enter scattering timber and dense undergrowth.

Subdivision of T. 32 S., R. 2⁴ E.

CHAINS	
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18 in W. half, and S 17 in E. half; from which A cedar 8ins.dia., bears, N.8°07'E., 221 lks. dist., marked $\frac{1}{4}$ S 17 BT. A pinon 14ins.dia., bears, N.11°20'W., 290 lks. dist., marked $\frac{1}{4}$ S 18 BT.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 7-8-17 and 18, marked on brass cap, T 32 S S 7 in NW. R 2 ⁴ E S 8 in NE. S 17 in SE. and S 18 in SW. quadrant; from which A pinon 8ins.dia., bears, S.71°45'E., 99 lks. dist., marked T 32 S R 2 ⁴ E S 17 BT. A cedar 12ins.dia., bears, N.51°00'W., 145 lks. dist., marked T 32 S R 2 ⁴ E S 7 BT. No other trees within limits; dig pits 18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with scattering timber and dense undergrowth on 80.00chs.
40.00	October 13: At 11h.47m., a.m., l.m.t., I set off 7°33'S. on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is 38°03'N. Thence I run S.89°58'E., on random line bet. secs. 8 and 17. Set temp. $\frac{1}{4}$ sec. cor.
80.34	Intersect N. and S. line 2 lks. S. of the cor. of secs. 8-9-16, and 17. Thence I run.

CHAINS	N. $89^{\circ}59'W.$,on true line bet. secs. 8 and 17. over rolling land, through heavy timber.
13.80	Leave heavy timber,bears, NW. and SE. Enter dense under-growth.
20.15	Enter scattering timber.
40.17	Set an iron post 3ft.long,1 in.dia.,26ins. in the ground for $\frac{1}{4}$ sec. cor.,marked on brass cap, $\frac{1}{4}$ S 8 in N. half, and S 17 in S. half;from which A pinon 12ins.dia.,bears, N. $70^{\circ}24'W.$,75 lks. dist., marked $\frac{1}{4}$ S 8 BT. A pinon 6ins.dia.,bears, S. $5^{\circ}43'E.$,131 lks. dist., marked $\frac{1}{4}$ S 17 BT.
55.84	Leave scattering timber.
62.40	Enter scattering timber.
80.34	The cor. of secs. 7-8-17 and 18. Land,rolling. Soil,sandy loam, 2nd. rate. Subsoil,clay and gravel. Timber,cedar and pinon. Undergrowth,sagebrush. Heavily timbered land or land covered with scattering timber or dense undergrowth on 80.34chs.
<hr/>	
34.84	Knowing from retracement and resurvey of the Colorado Guide meridian,.that the line bet. secs.. 7 and 18 will not close within limits on the Colorado Guide Meridian, I run
40.00	N. $89^{\circ}58'W.$,on true line bet. secs.. 7 and 18. Over rolling land, through dense undergrowth and scattering timber. Leave scattering timber. Set an iron post 3ft.long,1 in.dia.,26ins. in the ground for $\frac{1}{4}$ sec. cor.,marked on brass cap, $\frac{1}{4}$ S 7 in N. half, and S 18 in S. half; dig pits 18x18x12 ins. E. and W. of post,3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Subdivision of T.32 S., R.24 E.

CHAINS
76.6⁴

Intersect Colorado Guide Meridian, 3.79chs. S. of the re-established cor. of secs. 12 and 13, T.32 S., R.23 E., heretofore described.

Set an iron post 3ft.long, 2ins.dia., 2¹4ins. in the ground for closing cor. of secs. 7 and 18, marked on brass cap;

T 32 S in W. half,

R 23 E S 12 S 13 CC in W. half,

R 24 E S 7 in NE. and

S 18 in SE. quadrant; from which

A pinon 6ins.dia., bears, N.49°45'E., 86 lks. dist., marked T 32 S R 24 E S 7 BT.

No other tree within limits; dig pits 2¹4x18x12 ins. of post crosswise on each line, N. and S., 3ft. and E. 7ft. dist. and raise a mound of earth, 4ft. base, 2ft. high E. of cor. Land, rolling.

Soil, sandy loam, 2nd rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber on 76.6⁴chs.

October 13, 1911.

40.00

October 14: At 7h.46m., a.m., l.m.t., I set off 38°03'N. on the lat. arc, 7°51'S. on the decl. arc, and at the cor. of secs. 7-8-17 and 18, determine a meridian with the solar. Thence I run

N.0°03'W., bet. secs. 7 and 8.

Over rolling land, through dense undergrowth and scattering timber.

Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 7 in W.half, and S 8 in E. half; from which

A pinon 8ins.dia., bears, S.41°00'E., 34 lks. dist., marked $\frac{1}{4}$ S 8 BT.

A pinon 12ins.dia., bears, S.6°00'W., 38 lks. dist., marked $\frac{1}{4}$ S 7 BT.

Subdivision of T. 32 S., R. 24 E.

CHAINS

42.35	Leave scattering timber.
56.48	Leave dense undergrowth. Enter heavy timber, bears, E. and W.
58.20	A pinon 16ins.dia., on line, marked 2 notches on N. and S.
74.00	Wash, 30ft. deep, 40ft. wide, drains N.
80.00	Set an iron post 3ft.long, 1 in.dia., 24ins. in the ground for cor. of secs. 5-6-7 and 8, marked on brass cap, T 32 S S 6 in NW. R 24 E S 5 in NE. S 8 in SE. and S 7 in SW. quadrant; from which A pinon 6ins.dia., bears, N. 41°15' E., 54 lks. dist., marked T 32 S R 24 E S 5 BT. A pinon 13ins.dia., bears, S. 77°00' E., 13 lks. dist., marked T 32 S R 24 E S 8 BT. A pinon 9ins.dia., bears, S. 47°10' W., 41 lks. dist., marked T 32 S R 24 E S 7 BT. A pinon 8ins.dia., bears, N. 26°00' W., 6 lks. dist., marked T 32 S R 24 E S 6 BT. Land, rolling. Soil, sandy loam on first 74.00chs., 1st. rate, balance sandy loam and loose rock, 3d. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense under- growth on 80.00chs.
40.00	S. 89°59' E., on random line bet. secs. 5 and 8. Set temp. $\frac{1}{4}$. sec. cor.
80.42	Intersect N. and S. line 2 lks. N. of the cor. of secs. 4-5-8 and 9. Thence I run N. 89°58' W., on true line bet. secs. 5 and 8. Over rolling land, through dense undergrowth and scattering timber.
3.25	Leave scattering timber.

Subdivision of T.32 S., R.24 E.

CHAINS	
17.70	Leave dense undergrowth. Enter heavy timber, bears NW. and SE.
40.21	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 in N. half, and S 8 in S. half; from which A cedar 8ins.dia., bears, N. $3^{\circ}00'W.$, 48 lks. dist., marked $\frac{1}{4}$ S 5 BT. A pinon 7ins.dia., bears, S. $50^{\circ}30'W.$, 84 lks. dist., marked $\frac{1}{4}$ S 8 BT.
80.42	The cor. of secs. 5-6-7 and 8. Land, rolling, Soil, sandy loam on first 76.00chs., 1st. rate, balance sandy loam and loose rock, 3d. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense undergrowth on 80.42chs.

October 14: At 11h.46m., a.m., l.m.t., I set off $7^{\circ}56'S.$ on the decl. arc, and at the cor. of secs. 5-6-7 and 8, observe the sun on the meridian, the resulting lat. is $38^{\circ}03'N.$

Knowing from retrace and resurvey of the Colorado Guide Meridian, that the line bet. secs. 6 and 7 will not close within limits on the Colorado Guide Meridian, I run

N. $89^{\circ}58'W.$, on true line bet. secs. 6 and 7.

Over rolling land, through heavy timber,
1.15 Wash, 30ft. deep, 40ft. wide, drains N.
18.20 Leave heavy timber, bears NW. and SE. Enter dense undergrowth.
36.64 Leave dense undergrowth. Enter heavy timber, bears NW. and SE.
40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 6 in N. half,

Subdivision of T.32 S., R.24 E.

CHAINS

and S 7 in S. half; from which

A cedar 12ins.dia., bears, N. $61^{\circ}40'W.$, 20 lks. dist.,
marked $\frac{1}{4}$ S 6 BT.

A cedar 11ins.dia., bears, S. $28^{\circ}07'W.$, 40 lks. dist.,
marked $\frac{1}{4}$ S 7 BT.

52.39 Top of sandstone ledges, 150ft. high, bear NE. and SW.

Abrupt descent.

57.39 Foot of ledges. Gradual descent.

76.59 Intersect Colorado Guide Meridian, 3.83chs. S. of the cor. of secs. 1 and 12, T.32 S., R.23 E., heretofore described. Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for closing cor. of secs. 6 and 7, marked on brass cap,

T 32 S in N. half,

R 23 E S 1 S 12 CC in W. half,

R 24 E S 6 in NE. and

S 7 in SW. quadrant; from which

A cedar 9ins.dia., bears, N. $62^{\circ}10'E.$, 15 lks. dist.,
marked T 32 S R 24 E S 6 BT.

A cedar 7ins.dia., bears, S. $34^{\circ}00'E.$, 110 lks. dist.,
marked T 32 S R 24 E S 7 BT.

Land, mountainous and rolling.

Soil, sandy loam on first 50.00chs., 1st. rate, balance sandy loam, loose rock and sandstone ledges, 4th. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense undergrowth on 76.59chs.

Knowing that the line bet. secs. 5 and 6 will not close within limits on the N. bdy. of Tp., I run

N. $0^{\circ}03'W.$, on true line bet. secs. 5 and 6.

Descend through heavy timber.

18.90 Top of sandstone ledges, 150ft. high, bear NE. and SW.

Abrupt descent.

21.35 Foot of ledges. Thence gradual descent over rolling land.

Subdivision of T.32 S., R.2⁴ E.

CHAINS	
23.60	Ravine, 55ft. deep, 250ft. wide, drains NE.
.40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 6 in W. half, and S 5 in E. half; from which A pinon 23ins. dia., bears, S.20°30'E., 35 lks. dist., marked $\frac{1}{4}$ S 5 BT. A pinon 8ins. dia., bears, S.66°35'W., 49 lks. dist., marked $\frac{1}{4}$ S 6 BT.
	October 14, 1911.
	October 16: At 7h.46m., a.m., l.m.t., I set off 38°03'N. on the lat. arc, 8°36'S., on the decl. arc, and at the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 6, determine a meridian with the solar. Thence I run N.0°03'W., bet. secs. 5 and 6.
61.90	Ravine, 60ft. deep, 300ft. wide, drains NW.
103.20	Leave heavy timber, bears NE. and SW. Enter scattering timber and dense undergrowth.
120.97	Intersect N. bdy. of Fp. 137chs. W. of the cor. of secs. 5-6-31 and 32, heretofore described. Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for closing cor. of secs. 5 and 6, marked on brass cap, T 31 S R 2 ⁴ E S 31 S 32 CC in N. half, R 24 E S 5 in SE. and T 32 S S 6 in SW. quadrant; raise a mound of stone, 2ft. base, $1\frac{1}{2}$ ft. high S. of cor. I destroy marks on cor. of secs. 5, 6, 31 and 32, pertaining to secs. 5 and 6. Land, mountainous. Soil, sandy loam, loose rock and sandstone ledges, 4th. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Mountainous land, heavily timbered land or land covered with dense undergrowth on 120.97chs.
	October 16, 1911. <i>Melvin H. West, D. L. Gassman</i>
	GENERAL DESCRIPTION. This township is situated on the divide between the San Juan River drainage and the Grand River drainage,

GENERAL DESCRIPTION OF T.32 S., R.24 E.

and the surface is generally a gently rolling mesa, cut by South Canyon which drains northerly in the north east portion, a ravine, draining northwesterly in the north western portion and by Vega Creek, which flows southeasterly in the southwestern portion of the township.

The southern portion of the township is covered with a dense growth of sage brush and nutritious grasses, while the balance is covered with scattering groves of heavy cedar and pinon timber, dense undergrowth or scattering timber and grass, making the entire township an excellent stock range.

The entire township with the exception of the canyon and ravine, already described has a soil of a sandy loam, from 18 to 36 ins. in depth, with a subsoil of clay and is suitable for dry farming, the annual average precipitation exceeding 20 ins.

The soil in the vicinity of the canyon and ravine is rocky, with a solid sandstone subsoil and is unfit for any purpose, except for grazing.

The only water in the township is Vega Creek, a stream of pure water, which flows through the southwest cor. of sec. 31 and an un-named spring in the head of South Canyon, in the N $\frac{1}{2}$ of sec. 14, this spring could not be located from any point on any line.

There are no settlers in this township.

The wire fence in secs. 31 and 32, belong to the Carlisle Ranch which is located in sec. 1, T.33 S., R.23 E.

There are no roads of any importance in this township.

The corral in N $\frac{1}{2}$ sec. 14, is used by cattlemen.

There are no indications of coal, oil or mineral found in this township.

W.H. Heist
Eben B. Andrews
U.S. Transitmen

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Page

BOOK A-393

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of

For certificates of assistants see book "Z" T. 38 S., R. 26 E.

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of transitmen see book "Z" T. 32 S., R. 26 E.

..... of the
Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 191_____ }



APPROVAL.

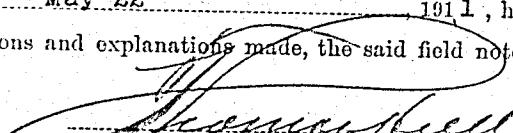
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19

, 1914.

The foregoing field notes of the survey of the subdivisional lines of Township No. 32 South, Range No. 24 East of the Salt Lake Base and Meridian, Utah,

executed by _____ Melvin D. Heist and Eber B. Andrews
under their special instructions dated May 22, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.


U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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FEB 10 1912

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BOOK A-393

FIELD NOTES

RETRACEMENT

OF THE SURVEY OF THE

SOUTH BOUNDARY.....
andRESURVEY NORTH AND EAST BOUNDARIES
of

TOWNSHIP 32 SOUTH, RANGE 25 EAST.....

Of the SALT LAKE BASE and Meridian,

In the State of UTAH.

EXECUTED BY

Melvin D. Heist and Eben B. Andrews.

Transitmen

In the capacity of U.S. Surveyors, under instructions dated May 22, 1911,
 issued by the United States Surveyor General to govern surveys included in
 Group No. 12, which were approved by the Commissioner of the General Land
 Office, June 17, 1911, pursuant to authority contained in the Act of
 Congress dated 1911.

Survey commenced October 6, 1911

Survey completed October 20, 1911

Rec'd 13-1 5-75-43
 Rec'd 2 " 6-00-33
 Rec'd 3 " 5-77-73

6-151

INDEX DIAGRAM.

Township 32 SOUTH..... Range 25 EAST.....

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
2	3	3	4	5	6

Retracement of the South Boundary of T.32 S., R.25 E.

Survey commenced October 6, 1911, and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 32 and 33 S., Rs. 24 and 25 E., which is a sandstone, 15x8x4 ins. above ground, marked and witnessed as described by the surveyor general, in approximate lat. $37^{\circ}59'N.$, long. $109^{\circ}16'W.$, I set off $37^{\circ}59'N.$ on the lat.arc, $4^{\circ}56'S.$ on the decl.arc, and at 3h. 48m., p.m., l.m.t., determine a meridian with the solar and mark a point in the line thereof, on a stone firmly set in the ground 5chs. N. of the cor.

At 6h. 35m., p.m., l.m.t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground 5chs. N. of my station.

October 6, 1911.

October 7: At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the mark falls 0.3ins. east of the mark determined by the solar.

At 7h. 48m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat.arc, $5^{\circ}12'S.$ on the decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs. N. of my station; this mark falls 0.2ins. east of the meridian established by the Polaris observation.

The solar apparatus, by a.m. and p.m. observations, defines positions for meridians, about $0'11''$ east and $0'16''$ west, respectively, of the meridian established by the Polaris observations; therefore I conclude that the adjustments

Retracement of the South Boundary of T.32 S., R.25 E.

CHAINS

of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m. is N. $15^{\circ}35'$ W., the angle thus determined gives the mag. decl. $15^{\circ}35'E.$

From the Tp.cor. already described, I run
N. $89^{\circ}58'E.$ retracing bet. secs. 6 and 31.

Over rolling land, through dense undergrowth.

38.50

Intersect the old $\frac{1}{4}$ sec. cor., which is a decayed cedar post. I re-establish the cor. at the same point as follows:

Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 31 in N. half, and S 6 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

78.35

Fall 2 lks. S. of the old cor. of secs. 5-6-31 and 32, which is a decayed cedar post, with the marks nearly obliterated. I re-establish the cor. in the same point as follows:

Set an iron post 3ft. long, 3ins. dia., 24ins. in the ground for re-established cor. of secs. 5-6-31 and 32, marked on brass cap, T 32 S S 31 in NW.

R 25 E S 32 in NE.

R 25 E S 5 in SE. and

T 33 S S 6 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

The course of this line is therefore N. $89^{\circ}57'E.$, and the distance 78.35 chs.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 78.35 chs.

N. $89^{\circ}58'E.$, retracing bet. secs. 5 and 32.

Retracement of the South Boundary of T.32 S., R.25 E.

CHAINs

39.98

over rolling land, through dense undergrowth.
Fall 2 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a decayed cedar post. I re-establish the cor. at the same point as follows:
Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 in N. half, and S 5 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

I continue on the same line.

Wagon road, course NE. and SW.

Fall 5 lks. S. of the old cor. of secs. 4-5-32 and 33, which is a decayed pinon post, with marks nearly obliterated. I re-establish the cor. in the same point as follows:

Set an iron post 3ft. long, 3ins. dia., 24ins. in the ground for re-established cor. of secs. 4-5-32 and 33, marked on brass cap, T 32 S S 32 in NW.

R 25 E S 33 in NE.

R 25 E S 4 in SE. and

T 33 S S 5 in SW. quadrant; dig pits 18x18x12ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

The course of this line is therefore N $89^{\circ}56'E.$, and the distance 80.00chs.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

N $89^{\circ}58'E.$, retracing bet. secs. 4 and 33.

Over rolling land, through dense undergrowth.

39.92

Fall 3 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a decayed pinon post. I re-establish the cor. at the same point as follows:

Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground

Retracement of the South Boundary of T.32 S., R.25 E.

CHAINS

for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 in N. half, and S $\frac{1}{4}$ in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.

I continue on the same line.

79.90 Fall 7 lks. S. of the old cor. of secs. 3-4-33 and 3 $\frac{1}{4}$, which is a decayed cedar post, with the marks nearly obliterated. I re-establish the cor. at the same point as follows:

Set an iron post 3ft. long, 3ins. dia., 2 $\frac{1}{4}$ ins. in the ground for re-established cor. of secs. 3-4-33 and 3 $\frac{1}{4}$, marked on brass cap, T 32 S S 33 in NW.

R 25 E S 3 $\frac{1}{4}$ in NE.

R 25 E S 3 in SE. and

T 33 S S 4 in SW. quadrant; dig pits 18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

The course of this line is therefore N.89°55'E., and the distance 79.90chs!

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 79.90chs.

October 7: At 11h.48m., a.m., l.m.t., I set off 5°17'S., on the decl. arc, and at the re-established cor. of secs. 3-4-33 and 3 $\frac{1}{4}$, observe the sun on the meridian, the resulting lat. is 37°59'N. Thence I run N.89°58'E., retracing bet. secs. 3 and 3 $\frac{1}{4}$.

Over rolling land, through dense undergrowth.

40.09 Fall 5 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a decayed pinon post. I re-establish the cor. at the same point as follows:

Set an iron post 3ft. long, 1 in. dia., 2 $\frac{1}{4}$ ins. in the ground

Retracement of the South Boundary of T.32 S., R.25 E.

CHAINs

for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 $\frac{1}{4}$ in N. half, and S 3 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.

I continue on the same line.

62.80 Wash, 10ft. deep, 15ft. wide, drains N.

80.00 Fall 7 lks. S. of the cor. of secs. 2-3-3 $\frac{1}{4}$ and 35, which is a sandstone 4x6x11 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore N.89°55'E., and the distance 80.00chs.

Land, rolling.

Soil, sandy loam., 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

N.89°58'E., retracing bet. secs. 2 and 35.

Over rolling land, through dense undergrowth.

40.01 Fall 5 lks. S. of the $\frac{1}{4}$ sec. cor. bet. secs. 2 and 35, which is a sandstone 4x5x10 ins. above ground, marked and witnessed as described by the surveyor general.

I continue on the same line.

80.04 Fall 9 lks. S. of the cor. of secs. 1-2-35 and 36, which is a sandstone 3x6x18 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore N.89°54'E., and the distance 80.04chs.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.04chs.

N.89°58'E., retracing bet. secs. 1 and 36.

Retracement of the South Boundary of T.32 S., R.25 E.

CHAINS	Over rolling land, through dense undergrowth.
40.06	Fall 2 lks. S. of the $\frac{1}{4}$ sec. cor., which is a sandstone 3x5x10 ins. above ground, marked and witnessed as described by the surveyor general. I continue on the same line.
	Enter scattering timber.
73.00	Leave scattering timber.
74.20	Wagon road, course NW. and SE.
80.14	Fall 5 lks. S. of the cor. of Tps. 32 and 33 S., R. 25 and 26 E, which is a sandstone 4x6x14 ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N. 89° 56' E., and the distance 80.14 chs. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.14 chs.

October 7, 1911.

For general description see subdivision of T.32 S., R.25 E.

Melvin H. Heist
U.S. Transitman.

Resurvey of the East Boundary of T.32 S.R.25 E.

Survey commenced October 15, 1911, and executed with the instrument described in book "D" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps.32 and 33 S., Rs.25 and 26 E., heretofore described, in approximate lat. $37^{\circ} 59' N.$; long. $109^{\circ} 09' W.$, I set off $37^{\circ} 59' N.$ on the lat.arc; $8^{\circ} 21' S.$ on the decl.arc; and at 3h 46m a.m.l.m.t., determine a meridian with the solar and mark a point in the line thereof, on a stone firmly set in the ground 5 chs.N. of the cor.

October 15, 1911.

October 16: At 5h 50m a.m.l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs.N. of my station.

At 7 a.m., I lay off the azimuth of Polaris $1^{\circ} 29'$ to the east, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the mark falls 0.2 ins.east of the mark determined by the solar.

At 7h 46m a.m.l.m.t., I set off $37^{\circ} 59' N.$ on the lat. arc; $8^{\circ} 35' S.$ on the decl.arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.2 ins.west of the meridian established by the Polaris observation.

The solar apparatus by a.m. and p.m. observations defines a position for the meridian about $0' 11'' E.$ and $0' 11''$

Resurvey of the East Boundary of T.32 S., R.25 E.

- Chaine. W., respectively, of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
- The magnetic bearing of the true meridian at 8h 30m a.m. is N.15° 35'W.; the angle thus determined gives the mag.decl. 15° 35'E.
- Knowing from retracments and resurveys that the old cors. are missing or out of limits; from the cor.of Tps.32 and 33 S., Rs.25 and 26 E., heretofore described I run
- North resurveying bet.secs.31 and 36,
Over rolling land; through dense undergrowth.
- 40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 36 in W.half, and S 31 in E.half;from which A lone pinon 9 ins.dia., bears S.11°45'E. 262 lks. dist., marked $\frac{1}{4}$ S 31 E T
- No other trees within limits; dig pits 18 x 18 x 12 ins. N.and S.of post 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
- From this cor.the old $\frac{1}{4}$ sec.cor., which is a pinon post marked and witnessed as described by the surveyor general bears S.6°00'W. 221 lks.dist. I destroy all trace of the old cor.
- 54.00 Wash 10 lks.wide, 5 ft.deep, course SW.
- 80.00 Set an iron post 3 ft.long, 3 ins.dia., 34 ins.in the ground, for re-established cor.of secs.25,30,31, and 36, marked on brass cap T.32 S in N.half, R 25 E S 25 in NW. R 26 E S 30 in NE. S 31 in SE.; and S 36 in SW.quadrant; dig pits 18 x 18 x 12 ins.in each sec. $5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft. base, 2 ft.high W.of cor.
- From this cor.the old sec.cor.; which is a sandstone 3 x 6 x 10 ins.above ground, marked and witnessed as described by the surveyor general, bears S.6°58'W. 208 lks.dist. I destroy all trace of the cld cor.
- Land, rolling. Soil, sandy loam; 1st rate.

Resurvey of the NEast Boundary of T.32 S., R.25 E.

CHAINS

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

October 16: At 11h.46m., a.m., l.m.t., I set off $8^{\circ}40' S.$ on the decl. arc, and at the re-established cor. of secs. 25-30-31 and 36, observe the sun on the meridian, the resulting lat. is $38^{\circ}00' N.$

North, resurveying bet. secs. 25 and 30.

Over rolling land, through dense undergrowth.

40.00

Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 25 in W. half, and S 30 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

From this cor., the old $\frac{1}{4}$ sec. cor., which is a sandstone 3x6x10 ins. above ground, marked and witnessed as described by the surveyor general, bears, S. $0^{\circ}26' W.$, 201 lks. dist.

I destroy all marks of the old cor.

78.70

Enter scattering timber.

80.00

Set an iron post 3ft. long, 3ins. dia., 2 $\frac{1}{4}$ ins. in the ground for re-established cor. of secs. 19-24-25 and 30, marked on brass cap, T. 32 S. in W. half,

R 25 E S. 24 in NW.

R 26 E S. 19 in NE.

S 30 in SE. and

S 25 in SW. quadrant; from which

A pinon 7ins. dia., bears, N. $22^{\circ}45' E.$, 25 $\frac{1}{4}$ lks. dist.,

marked T 32 S R 26 E S 19 BT.

A pinon 8ins. dia., bears, S. $37^{\circ}41' W.$, 130 lks. dist.,

marked T 32 S R 25 E S 25 BT.

No other trees within limits; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor..

From this cor., the old sec. cor., which is a sandstone

Resurvey of the East Boundary of T.32 S., R.25 E.

CHAINS	<p>2x5x11 ins. above ground, marked and witnessed as described by the surveyor general, bears, S.5°40'W., 191 lks. dist.</p> <p>✓ I destroy all trace of the old cor.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, 1st. rate.</p> <p>Subsoil, clay.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth, sagebrush.</p> <p>Land covered with dense undergrowth or scattering timber on 80.00chs.</p> <hr/> <p>North; resurveying bet. secs. 19 and 24.</p> <p>Over rolling land, through dense undergrowth and scattering timber.</p>
40.00	<p>Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 24 in W. half. and S 19 in E. half; from which</p> <p>A pinon 9ins. dia., bears, S.27°35'E., 19 lks. dist., marked $\frac{1}{4}$ S 19 BT.</p> <p>A pinon 7ins. dia., bears, S.26°37'W., 70 lks. dist., marked $\frac{1}{4}$ S 24 BT.</p> <p>After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.</p> <p style="text-align: right;">October 16, 1911.</p> <p>October 17: At 7h.46m., a.m., l.m.t., I set off 38°01'N. on the lat. arc, 8°58'S. on the decl. arc, and at the above cor., determine a meridian with the solar. Thence I run</p> <p>North, resurveying bet. secs. 19 and 24.</p>
80.00	<p>Set an iron post 3ft. long, 3ins. dia., 24ins. in the ground for re-established cor. of secs. 13-18-19 and 24, marked on brass cap, T 32 S in N. half,</p> <p>R 25 E S 13 in NW.</p> <p>R 26 E S 18 in NE.</p> <p>S 19 in SE. and</p> <p>S 24 in SW. quadrant; from which</p> <p>A pinon 9ins. dia., bears, S.78°40'W., 154 lks. dist., marked T 32 S R 25 E S 24 BT.</p>

Resurvey of the North Boundary of T.32 S., R.25 E.

CHAINS

No other trees within limits; dig pits 18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

From this cor., the old sec. cor., which is a sandstone, 4x9x10 ins. above ground, marked and witnessed as described by the surveyor general, bears, S.16°35'E., 177 lks. dist.

I destroy all trace of the old cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth and scattering timber on 80.00 chs.

North, resurveying bet. secs. 13 and 18.

Over rolling land, through dense undergrowth and scattering timber.

5.57

Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap. $\frac{1}{4}$ S 13 in W. half, and S 18 in E. half; from which

A pinon 7 ins. dia., bears, S.63°00'E., 32 lks. dist., marked $\frac{1}{4}$ S 18 BT.

A pinon 8 ins. dia., bears, S.38°33'W., 29 lks. dist., marked $\frac{1}{4}$ S 13 BT.

From this cor., the old cor., which is a sandstone 3x4x10 ins. above ground, marked and witnessed as described by the surveyor general, bears, S.29°05'W., 193 lks. dist. I destroy all trace of the old cor.

80.00

Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground for re-established cor. of secs. 7-12-13 and 18, marked on brass cap, T 32 S in N. half,

R 25 E S 12 in NW.

R 26 E S 7 in NE.

S 18 in SE. and

S 13 in SW. quadrant; from which

Resurvey of the East Boundary of T.32 S., R.25 E.

CHAINS

A pinon 12ins.dia., bears, N. $88^{\circ}15' E.$, 90 lks. dist., marked T 32 S R 26 E S 7 BT.

A pinon 6ins.dia., bears, S. $11^{\circ}45' E.$, 10⁴ lks. dist., marked T 32 S R 26 E S 18 BT.

A pinon 7ins.dia., bears, S. $74^{\circ}00' W.$, 121 lks. dist., marked T 32 S R 25 E S 13 BT.

A pinon 8ins.dia., bears, N. $51^{\circ}45' W.$, 47 lks. dist., marked T 32 S R 25 E S 12 BT.

From this cor., the old sec. cor., which is a pinon post, marked and witnessed as described by the surveyor general, bears, S. $42^{\circ}40' W.$, 203 lks. dist. I destroy all trace of the old cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth and scattering timber on 80.00chs.

October 17: At 11h.46m., a.m., l.m.t., I set off 9°02'S. on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is 38°03'N.

North, resurveying bet. secs. 7 and 12.

Over rolling land, through dense undergrowth and scattering timber.

15.96 A cedar tree, 18ins.dia. on line, marked with 2 notches on N. and S.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 12 in W. half, and S 7 in E. half; from which

A pinon 7ins.dia., bears, N. $50^{\circ}28' E.$, 94 lks. dist., marked $\frac{1}{4}$ S 7 BT.

A cedar 8ins.dia., bears, N. $28^{\circ}25' W.$, 52 lks. dist., marked $\frac{1}{4}$ S 12 BT.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.

Resurvey of the East Boundary of T.32 S., R.25 E.

CHAINS.

80.00 Set an iron post 3ft.long, 3ins.dia., 2 $\frac{1}{4}$ ins. in the ground for re-established cor. of secs. 1-6-7 and 12, marked on brass cap, T.32 S in N. half,

R 25 E S 1 in NW.

R 26 E S 6 in NE.

✓ S 7 in SE. and

S 12 in SW. quadrant; from which

A pinon 8ins.dia., bears, N. $43^{\circ}20' E.$, 28 lks. dist., marked T 32 S R 26 E S 6 BT.

A cedar 10ins.dia., bears, S. $9^{\circ}25' E.$, 53 lks. dist., marked T 32 S R 26 E S 7 BT.

A pinon 9ins.dia., bears, S. $24^{\circ}34' W.$, 76 lks. dist., marked T 32 S R 25 E S 12 BT.

A pinon 8ins.dia., bears, N. $54^{\circ}45' W.$, 103 lks. dist., marked T 32 S R 25 E S 1 BT.

After diligent search no trace can be found of the old sec. cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth and scattering timber on 80.00chs.

North, resurveying bet. secs. 1 and 6.

Over rolling land, through dense undergrowth and scattering timber.

15.25 Leave scattering timber.

40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 in W. half, and S 6 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.

Resurvey of the East Boundary of T.32 S., R.25 E.

CHAINS	
58.30	Wash, 20ft. deep, 35ft. wide, drains SW.
92.35	Enter scattering timber.
120.33	<p>Set an iron post 3ft. long, 3ins. dia., 2$\frac{1}{4}$ins. in the ground for re-established cor. of Tps. 31 and 32 S., Rs. 25 and 26 E., marked on brass cap, T 31 S in N. half, T 32 S in S. half, R 25 E S 36 in NW. R 26 E S 31 in NE. R 26 E S 6 in SE. and R 25 E S 1 in SW. quadrant; from which A pinon 7ins. dia., bears, N. 49° 41' W., 52 lks. dist., marked T 31 S R 25 E S 36 BT.</p> <p>No other trees within limits; dig pits 24x24x12 ins. on each line, N., E., and W., 4ft. dist., and S. ^{of post} 8ft. dist.; and raise a mound of earth, 5$\frac{1}{2}$ ft. base, 2$\frac{1}{2}$ ft. high S. of cor. After diligent search no trace can be found of the old Tp. cor.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, 1st. rate.</p> <p>Subsoil, clay.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth, sagebrush.</p> <p>Land covered with dense undergrowth or scattering timber on 120.33chs.</p>

October 17, 1911.

October 18: At 7h. 45m., a.m., l.m.t., I set off 38° 04' N.
on the lat. arc, 9° 19' S. on the decl. arc, and determine
a meridian with the solar, at the re-established cor. of
Tps. 31 and 32 S., Rs. 25 and 26 E. heretofore described.
Thence I run
West on random line, along the N. bdy. of T. 32 S., R. 25 E.,
setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00
chs.; and, at 477.73chs., intersect the W. bdy. of T. 31 S.,
R 25 E., 14 lks. N. of the cor. of Tps. 31 and 32 S., Rs.
24 and 25 E., heretofore described.
This falling answers to a correction of 0° 01', or 2.3 lks.,
S. per mile, counting from the NE.cor. of the Tp.

October 18, 1911.

Resurvey of the North Boundary of T.32 S., R.25 E.

CHAINS

Finding no corners on N.bdy.of Tp., I resurvey as follows:

October 20: At 7h.45m., a.m., l.m.t., I set off $38^{\circ}04'N.$ on the lat. arc, $10^{\circ}03'S.$ on the decl. arc, and determine a meridian with the solar at the cor. of Tps. 31 and 32 S., Rs. 24 and 25 E.

Thence I run,

N. $89^{\circ}59'E.$, bet. secs. 6 and 31, marking and blazing true line.

Descend over mountainous land, through heavy timber.

6.10 Ravine, 70ft. deep, 200ft. wide, drains N. Ascend

20.50 Spur, projects 3chs. N. Descend.

37.73 Set an iron post 3ft. long, 1.in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}S$ 31 in N. half, and S 6 in S. half; from which

A pinon 10ins.dia., bears, N. $77^{\circ}30'E.$, 31 lks. dist., marked $\frac{1}{4}S$ 31 BT.

A pinon 6ins.dia., bears, S. $6^{\circ}30'W.$, 44 lks. dist., marked $\frac{1}{4}S$ 6 BT.

45.70 Ravine, 60ft. deep, 100ft. wide, drains NW.

66.50 Top of sandstone ledges, 175ft. high, bear NW. and SE.

Abrupt descent.

70.10 Foot of ledges. Leave heavy timber, bears NW. and SE.

Gradual descent.

76.15 wash, 25ft. deep, 35ft. wide, in the bottom of East Canon, drains NW. Ascend

77.73 Set an iron post 3ft. long, 3ins.dia., 26ins. in the ground for re-established cor. of secs. 5-6-31 and 32, marked on brass cap, T 31 S S 31 in NW.

R 25 E S 32 in NE.

R 25 E S 5 in SE. and

T 32 S S 6 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

Land, mountainous.

Soil, sandy loam, loose rock and sandstone ledges, 4th. rate.

Subsoil, sandstone.

Resurvey of the North Boundary of T.32 S., R.25 E.

CHAINS	
	Timber, cedar and pinon.
	Heavily timbered land on 70.10chs.
	N.89°59'E., bet. secs. 5 and 32.
	Ascend over bottom of East Canon.
8.10	Begin abrupt ascent over sandstone ledges.
14.40	Top of ledges, 200ft. high, bear NW. and SE. Gradual ascent through heavy timber.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 in N. half, and S 5 in S. half; from which A pinon 8ins.dia., bears, N.67°50'W., 45 lks. dist., marked $\frac{1}{4}$ S 32 BT. A cedar 7ins.dia., bears, S.17°25'W., 73 lks. dist., marked $\frac{1}{4}$ S 5 BT.
48.50	Ravine, 45ft. deep, 100ft. wide, drains SW.
80.00	Set an iron post 3ft. long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 4-5-32 and 33, marked on brass cap, T 31 S S 32 in NW. R 25 E S 33 in NE. R 25 E S 4 in SE. and T 32 S S 5 in SW. quadrant; from which A pinon 7ins.dia., bears, N.18°03'E., 44 lks. dist., marked T 31 S R 25 E S 33 BT. A cedar 6ins.dia., bears, S.47°05'E., 72 lks. dist., marked T 32 S R 25 E S 4 BT. A cedar 7ins.dia., bears, S.34°25'W., 94 lks. dist., marked T 32 S R 25 E S 5 BT. A pinon 6ins.dia., bears, N.75°32'W., 59 lks. dist., marked T 31 S R 25 E S 32 BT.
	Land, mountainous.
	Soil, sandy loam, loose rock and sandstone ledges, 4th. rate.
	Subsoil, sandstone.
	Timber, cedar and pinon.
	Heavily timbered land on 65.60chs.
	N.89°59'E., bet. secs. 4 and 33.

Resurvey of the North Boundary of T.32 S., R.25 E.

CHAINS

Ascend over mountainous land, through heavy timber.

6.40 Ravine, 75ft. deep, 300ft. wide, drains SW.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 in N. half, and S 4 in S. half; from which
A pinon 7ins. dia., bears, N. $2^{\circ}05'$ E., 11 lks. dist.,
marked $\frac{1}{4}$ S 33 BT.
A pinon 6ins. dia., bears, S. $13^{\circ}20'$ W., 41 lks. dist.,
marked $\frac{1}{4}$ S 4 BT.

42.10 Begin abrupt ascent over sandstone ledges.

43.70 Top of ledges, 150ft. high, bear NE. and SW. Thence over rolling land.

80.00 Set an iron post 3ft. long, 3ins. dia., 24ins. in the ground for re-established cor. of secs. 3-4-33 and 34, marked on brass cap, T 31 S S 33 in NW.
R 25 E S 34 in NE.
R 25 E S 3 in SE. and
T 32 S S 4 in SW. quadrant; from which
A pinon 13ins. dia., bears, N. $22^{\circ}00'$ E., 7 lks. dist.,
marked T 31 S R 25 E S 34 BT.
A pinon 9ins. dia., bears, S. $78^{\circ}49'$ E., 93 lks. dist.,
marked T 32 S R 25 E S 3 BT.
A pinon 14ins. dia., bears, S. $4^{\circ}00'$ W., 44 lks. dist.,
marked T 32 S R 25 E S 4 BT.
A cedar 9ins. dia., bears, N. $78^{\circ}20'$ W., 84 lks. dist.,
marked T 31 S R 25 E S 33 BT.

Land, mountainous and rolling.
Soil, sandy loam, loose rock and sandstone ledges on first 44.00chs., 4th. rate, balance sandy loam, 2nd. rate.
Subsoil, sandstone.
Timber, cedar and pinon.
Heavily timbered land on 80.00chs.

October 20: At 11h. 45m., a.m., l.m.t., I set off $10^{\circ}08'$ S. on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is $38^{\circ}04'$ N.
N. $89^{\circ}59'$ E., bet., secs. 3 and 34.

Resurvey of the North Boundary of T.32 S., R.25 E.

CHAINS	Over rolling land, through heavy timber.
2.50	Leave heavy timber, bears N. and S. Enter scattering timber and dense undergrowth.
40.00	<p>Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3$\frac{1}{4}$ in N. half, and S 3 in S. half; from which</p> <p>A pinon 7ins.dia., bears, N.$72^{\circ}30'W.$, 46 lks. dist., marked $\frac{1}{4}$ S 3$\frac{1}{4}$ BT.</p> <p>A cedar 6ins.dia., bears, S.$53^{\circ}05'E.$, 80 lks. dist., marked $\frac{1}{4}$ S 3 BT.</p>
80.00	<p>Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 2-3-3$\frac{1}{4}$ and 35, marked on brass cap, T 31 S S 3$\frac{1}{4}$ in NW.</p> <p>R 25 E S 35 in NE.</p> <p>R 25 E S 2 in SE. and</p> <p>T 32 S S 3 in SW. quadrant; from which</p> <p>A pinon 8ins.dia., bears, S.$8^{\circ}00'E.$, 167 lks. dist., marked T 32 S R 25 E S 2 BT.</p> <p>A pinon 9ins.dia., bears, S.$50^{\circ}10'W.$, 136 lks. dist., marked T 32 S R 25 E S 3 BT.</p> <p>A pinon 6ins.dia., bears, N.$54^{\circ}51'W.$, 118 lks. dist., marked T 31 S R 25 E S 3$\frac{1}{4}$ BT.</p> <p>No other tree within limits; dig pits 18x18x12 ins. in each sec., 5$\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, 1st. rate.</p> <p>Subsoil, clay.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth, sagebrush.</p> <p>Heavily timbered land or land covered with dense undergrowth on 80.00chs.</p>
40.00	<p>N.$89^{\circ}59'E.$, bet. secs. 2 and 35.</p> <p>Over rolling land, through scattering timber and dense undergrowth.</p> <p>Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground</p>

Resurvey of the North Boundary of T.32 S., R.25 E.

CHAINS	
	for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 35 in N. half, and S 2 in S. half; from which
	A pinon 6ins.dia., bears, N. $36^{\circ}09'$ W., 26 lks. dist., marked $\frac{1}{4}$ S 35 BT.
	A pinon 6ins.dia., bears, S. $3^{\circ}10'$ W., 38 lks. dist., marked $\frac{1}{4}$ S 2 BT.
54.00	Enter heavy timber, bears N. and S. Leave dense undergrowth.
67.00	Leave heavy timber, bears N. and S. Enter dense undergrowth.
20.00	Set an iron post 3ft.long, 3ins.dia., 24ins. in the ground for re-established cor. of secs. 1-2-35 and 36, marked on brass cap, T 31 S S 35 in NW.
....	.... R 25 E S 36 in NE.
....	.... R 25 E S 1 in SE. and
....	.... T 32 S S 2 in SW. quadrant; dig pits 18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.
....	Land, rolling.
....	Soil, sandy loam, 1st. rate.
....	Subsoil, clay.
....	Timber, cedar and pinon.
....	Undergrowth, sagebrush.
....	Heavily timbered land or land covered with dense undergrowth on 80.00chs.
	N. $89^{\circ}59'$ E., bet. secs. 1 and 36.
	Over rolling land, through dense undergrowth.
21.00	Enter scattering timber.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 36 in N. half, and S 1 in S. half; from which
	A pinon 6ins.dia., bears, N. $18^{\circ}30'$ E., 28 lks. dist., marked $\frac{1}{4}$ S 36 BT.
	A pinon 7ins.dia., bears, S. $18^{\circ}00'$ E., 13 lks. dist., marked $\frac{1}{4}$ S 1 BT.
80.00	The cor. of Tps 31 and 32 S., R. 25 and 26 E.
	Land, rolling.

Resurvey of the North Boundary of T.32 S., R.25 E.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00 chns.

October 20, 1911.

Eben B Andrews
U.S. Transitman.

BOUNDARIES OF T.32 S., R.25 E.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
West Bdy.	South.	520.96	. . . . .	520.96	. . . . .	. . . . .
South Bdy.	N.89°57'E.	78.35	.07	. . . . .	78.35	. . . . .
	N.89°56'E.	80.00	.09	. . . . .	80.00	. . . . .
	N.89°55'E.	159.90	.23	. . . . .	159.90	. . . . .
	N.89°54'E.	80.04	.14	. . . . .	80.04	. . . . .
	N.89°56'E.	80.14	.09	. . . . .	80.14	. . . . .
East Bdy.	North.	520.33	520.33	. . . . .	. . . . .	. . . . .
North Bdy.	S.89°59'W.	477.73	. . . . .	.14	. . . . .	477.73
Convergency		Totals	520.95	521.10	478.43	478.30
				520.95	478.30	
	Error in lat. and dep.				.15	.13

For general description see subdivision of T.32 S., R.25 E.

Melvin H. Geist
Eben B. Andrews
U.S. Transitmen.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of

For certificates of assistants see book "Z" T. 33 S., R. 26 E.

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the day of 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final oaths of transitmen see book "Z" T. Z S., R. 26 E.

..... of the Meridian, in the State of which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said and sworn to before me }
this day of 191 }



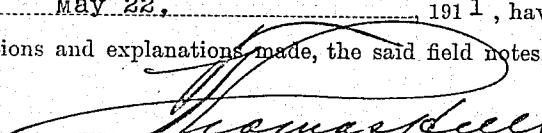
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19, 1914.

The foregoing field notes of the survey of retracement of the South, and re-survey of the North and East Boundaries of Township No. 32 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah,

executed by Melvin D. Heist and Eben B. Andrews
under their special instructions dated May 22, 1911, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.


U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
has been correctly copied from the original notes on file in this office.

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FILED
FEB 10 1911

BOOK "A" 393

FIELD NOTES

OF THE SURVEY OF THE

S.U.B.D.I.V.I.S.I.O.N.

of

TOWNSHIP 32 SOUTH, RANGE 25 EAST.

Of the SALT LAKE BASE and Meridian,

In the State of UTAH.

EXECUTED BY

Melvin D. Haist and Eben B. Andrews.

Transitmen

In the capacity of U. S. Surveyor under instructions dated May 22, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 12, which were approved by the Commissioner of the General Land
Office, June 17, 1911, pursuant to authority contained in the Act of
Congress dated 1911.

Survey commenced October 16, 1911.

Survey completed October 31, 1911.

62-34-26 ✓

INDEX DIAGRAM.

Township 32 SOUTH..... Range 25 EAST.....

6	48	5	36	4	27	3	18	2	9	1
47		46		35		26		17		8
7	45	8	35	9	25	10	16	11	7	12
45		44		34		24		15		7
18	43	17	32	16	23	15	14	11	6	13
42		42		32		22		13		5
19	41	20	31	21	21	22	12	23	11	24
40		40		31		21		11		4
39	39	29	30	28	20	27	11	26	3	25
38		38		30		19		10		2
37		37		29		19		9		2
										36

Subdivision of T.32 S., R.25 E.

Survey commenced October 16, 1911, and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Secs. 1, 2, 35, and 36 on S.W. bdy. of Tp. heretofore described, in approximate lat. $37^{\circ}59'N.$, long. $109^{\circ}11'W.$ I set off $37^{\circ}59'N.$ on the lat. arc, $8^{\circ}43'S.$, on the decl. arc, and at 3h. 46m., p.m., l.m.t., determine a meridian with the solar and mark a point in the line thereof, on a stone firmly set in the ground 5chs, N. of the cor.

October 16, 1911.

October 17: At 5h. 46m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground 5chs, N. of my station.

At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the east, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the mark falls 0.3 ins. west of the mark determined by the solar.

At 7h. 46m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat. arc, $8^{\circ}57'S.$, on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5chs, N. of my station; this mark falls 0.2ins. west of the meridian established by the Polaris observation. The solar apparatus, by a.m. and p.m. observations, defines positions for meridians, about $0'11''$ west and $0'16''$ east, respectively, of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 30m., a.m. is N. $15^{\circ}35'W.$, the angle thus determined gives the mag.

Subdivision of T.32 S., R.25 E.

CHAINS	decl. $15^{\circ}35' E.$ From said cor. of secs. 1-2-35 and 36 heretofore described, I run N. $0^{\circ}01' W.$, bet. secs. 35 and 36. Over rolling land, through dense undergrowth.
40.00	Set an iron post 3ft.long, 1 ins.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 35$ in W. half, and S 36 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. Wash, 10 lks. wide, 5 ft. deep, course NW. Wagon road, course NW. and SE.
50.76	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 25-26-35 and 36, marked on brass cap, T 32 S S 26 in NW. R 25 E S 25 in NE. S 36 in SE. and S 35 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.
73.15	Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00 chs.
80.00	October 17: At 11h. 46m., a.m., l.m.t., I set off $9^{\circ}02'S.$ on the decl. arc, and at the above cor., observe the sun on meridian, the resulting lat. is $38^{\circ}00' N.$ Thence I run N. $89^{\circ}56' E.$, on random line bet. secs. 25 and 36. Set temp. $\frac{1}{4}$ sec. cor. Intersect E.bdy. of Tp. 5 lks. N. of the re-established cor. of secs. 25-30-31 and 36, heretofore described. Thence, I run S. $89^{\circ}58' W.$, on true line bet. secs. 25 and 36. Over rolling land, through dense undergrowth.

Subdivision of T.32 S., R.25 E.

CHAINS

40.04

Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 25 in N. half, and S 36 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.08

The cor. of secs. 25-26-35 and 36.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.08chs.

N. 0°01' W., bet. secs. 25 and 26.

Over rolling land, through dense undergrowth.

40.00

Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 26 in W. half, and S 25 in E. half; dig pits 18x18x12 ins., N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00

Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 23-24-25 and 26, marked on brass cap, T 32. S S 23 in NW.

R 25 E S 24 in NE.

S 25 in SE. and

S. 26 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

October 17, 1911.

Subdivision of T.32 S., R.25 E.

CHAINS

- October 18: At 7h.45m., a.m., l.m.t., I set off $38^{\circ}02'N.$ on the lat. arc, $9^{\circ}19'S.$, on the decl. arc, and at the above cor. determine a meridian with the solar. Thence I run $N.89^{\circ}58'E.$, on random line bet. secs. 24 and 25.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect E. bdy. of Tp. at the re-established cor. of secs. 19-24-25 and 30, heretofore described. Thence I run $S.89^{\circ}58'W.$, on true line bet. secs. 24 and 25. Over rolling land, through dense undergrowth.
- "0.05 Set an iron post 3ft. long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 24$ in N. half, and S 25 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 71.40 Wash, 15ft. deep, 25ft. wide, drains NW.
- 80.10 The cor. of secs. 23-24-25 and 26.
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, clay.
No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 80.10chs.

-
- N.0°01'W., bet. secs. 23 and 24.
Over rolling land, through dense undergrowth.
- 15.10 Wash, 25ft. deep, 25ft. wide, drains NW.
- 30.25 Enter scattering timber.
- 39.40 Leave scattering timber.
- "0.00 Set an iron post 3ft. long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 23$ in W. half, and S 24 in E. half; from which
A pinon 6ins.dia., bears, $S.2^{\circ}40'E.$, 73 lks. dist., marked $\frac{1}{4} S 24$ BT.
A pinon 6ins.dia., bears, $S.3^{\circ}08'W.$, 106 lks. dist., marked $\frac{1}{4} S 23$ BT.

Subdivision of T.32 S., R.25 E.

CHAINS

- 80.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground
for cor. of secs. 13-14-23 and 24, marked on brass cap,
T 32 S S 1⁴ in NW.
R 25 E S 13 in NE.
S 2⁴ in SE. and
S 23 in SW. quadrant; dig pits 18x18x12 ins. in each
sec., 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base,
2ft. high W. of cor.
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, clay.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 80.00chs.

October 18: At 11h.45m., a.m., l.m.t., I set off 9°24'S., on
the decl. arc, and at the above cor., observe the sun on
the meridian, the resulting lat. is 38°03'N. Thence I run
N.89°58'E., on random line bet. secs. 13 and 24.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.16 Intersect E.bdy. of Tp. 2 lks. S. of the re-established
cor. of secs. 13-18-19 and 24, heretofore described.
Thence I run
S.89°57'W., on true line bet. secs. 13 and 24.
Over rolling land, through dense undergrowth.
14.06 Wash, 20ft. deep, 25ft. wide, drains SW.
17.36 Enter scattering timber, bears NE. and SW.
40.08 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 13 in N. half,
and S 24 in S. half; from which
A cedar 12ins.dia., bears, N.3°20'E., 62 lks. dist.,
marked $\frac{1}{4}$ S 13 BT.
A pinon 6ins.dia., bears, S.9°30'W., 228 lks. dist.,
marked $\frac{1}{4}$ S 24 BT.
44.06 Leave scattering timber.
80.16 The cor. of secs. 13-14-23 and 24.

Subdivision of T.32 S., R.25 E.

CHAINS	
	Land, rolling.
	Soil, sandy loam, 1st.rate.
	Subsoil, clay.
	Timber, cedar and pinon.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth or scattering timber on 80.16chs.
	N.0°01'W., bet. secs. 13 and 14.
	Over rolling land, through dense undergrowth.
39.45	Enter scattering timber, bears NE. and SW.
40.00	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 $\frac{1}{4}$ in W. half, and S 13 in E. half; from which
	A pinon 6ins.dia., bears, N.53°20'W., 44 lks. dist., marked $\frac{1}{4}$ S 13 BT.
	A pinon 11ins.dia., bears, N.19°00'W., 274 lks. dist., marked $\frac{1}{4}$ S 1 $\frac{1}{4}$ BT.
54.00	Wash, 15ft. deep, 25ft. wide, drains SW.
80.00	Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground for cor. of secs. 11-12-13 and 1 $\frac{1}{4}$, marked on brass cap,
	T 32 S S 11 in NW.
	R 25 E S 12 in NE.
	S 13 in SE. and
	S 1 $\frac{1}{4}$ in SW. quadrant; from which
	A pinon 6ins.dia., bears, N.38°00'E., 112 lks. dist., marked T 32 S R 25 E S 12 BT.
	A cedar 9ins.dia., bears, S.45°15'E., 62 lks. dist., marked T 32 S R 25 E S 13 BT.
	A pinon 8ins.dia., bears, S.12°00'W., 36 lks. dist., marked T 32 S R 25 E S 14 BT.
	A pinon 9ins.dia., bears, N.70°30'W., 60 lks. dist., marked T 32 S R 25 E S 11 BT.
	Land, rolling.
	Soil, sandy loam, 1st.rate.
	Subsoil, clay.

Subdivision of T.32 S., R.25 E.

CHAINS	Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.00chs.
	N.89°57' E., on random line bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect E. bdy. of Tp. 5 lks. S. of the re-established cor. of secs. 7-12-13 and 18, heretofore described. Thence I run S.89°55' W., on true line bet, secs. 12 and 13. Over rolling land, through dense undergrowth and scattering timber.
22.75	Leave scattering timber, bears NE. and SW.
40.10	Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 12 in N. half, and S 13 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft.dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
51.90	Enter scattering timber, bears, NE. and SW.
80.20	The cor. of secs. 11-12-13 and 14. Land, rolling. Soil, sandy loam, 1st. rate. ✓ Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.20chs.

October 18, 1911.

October 20: At 7h.45m., a.m., 1.m.t., I set off 38°03' N. on
the lat. arc, 10°03' S., on the decl. arc, and determine a
meridian with the solar at the cor. of secs. 11-12-13 and
14. Thence I run

N.0°01' W., bet. secs. 11 and 12.

Over rolling land, through dense undergrowth and scattering
timber.

34.58 Leave scattering timber, bears NE. and SW.
40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground

Subdivision of T.32 S., R.25 E.

CHAINS	for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 11 in W. half, and S 12 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
57.25	Wash, 25ft. deep, 35ft. wide, drains SW.
80.00	Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for. cor. of secs. 1-2-11 and 12, marked on brass cap, T 32 S S 2 in NW. R 25 E S 1 in NE. S 12 in SE. and S 11 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
	N. $89^{\circ}55'$ E., on random line bet.. secs. 1. and 12.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect the E. bdy. of Tp. 9 lks. N. of the re-established cor. of secs. 1-6-7 and 12, heretofore described. Thence I run S. $89^{\circ}59'$ W., on true line bet. secs. 1 and 12. Over rolling land, through dense undergrowth and scattering timber.
16.50	Leave scattering timber, bears NE. and SW.
40.07	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 in N. half, and S 12 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
45.34	Wash, 20ft. deep, 30ft. wide, drains SW.
80.14	The cor. of secs. 1-2-11 and 12!

Subdivision of T. 32 S., R. 25 E.

CHAINS	Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay... Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or scattering timber on 80.1 ⁴ chs.
40.00	N. 0°01' W., on random line bet. secs. 1 and 2. Set temp. $\frac{1}{4}$ sec. cor.
120.27	Intersect the N. bdy. of Tp. 3 lks. W. of the re-established cor. of secs. 1-2-35 and 36, heretofore described. Thence I run
74.57	South, on true line bet. secs. 1 and 2.
80.27	Over rolling land, through dense undergrowth. Enter scattering timber. Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 2 in W. half, and S 1 in E. half; from which A pinon 13ins. dia., bears, N. 44°10' E., 58 lks. dist., marked $\frac{1}{4}$ S 1 BT. A pinon 9ins. dia., bears, N. 62°15' W., 42 lks. dist., marked $\frac{1}{4}$ S 2 BT.
83.00	Leave scattering timber.
120.27	The cor. of secs. 1-2-11 and 12. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth on 120.27chs.
	October 20, 1911.
	October 19: At 7h. 45m., a.m., l.m.t., I set off 37°59' N. on the lat. arc, 9°41' S., on the decl. arc, and determine a meridian with the solar, at the cor. of secs. 2-3-34 and 35, heretofore described. Thence I run

Subdivision of T.32 S., R.25 E.

CHAINS

- N.0°01'W., bet. secs. 34 and 35.
Over rolling land, through dense undergrowth..
40.00 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 34 in W. half,
and S 35 in E. half; dig pits 18x18x12 ins., N. and S. of
post, 3ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base,
1 $\frac{1}{2}$ ft. high W. of cor./
80.00 Set an iron post 3ft.long, 2ins.dia., 24ins. in the ground
for cor. of secs. 26-27-34 and 35, marked on brass cap,
T 32 S S 27 in NW.
R 25 E S 26 in NE.
S 35 in SE. and
S 34 in SW. quadrant; raise a mound of stone, 2ft.base,
1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
Land, rolling.
Soil, sandy loam on first 65.00chs., 1st. rate, balance sandy
loam and loose rock, 3d. rate.
Subsoil, sandstone.
No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 80.00chs.

N.89°54'E., on random line bet. secs. 26 and 35.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.02 Intersect N. and S. line 2-lks. S. of the cor. of secs.
25-26-35 and 36.
Thence I run
S.89°53'W., on true line bet. secs. 26 and 35.
over rolling land, through dense undergrowth.
4.50 Wagon road, course NW. and SE.
40.01 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 26 in N. half,
and S 35 in S. half; and raise a mound of stone, 2ft.base,
1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
54.20 Wash, 10ft.deep, 15ft. wide, drains NW.
80.02 The cor. of secs. 26-27-34 and 35.

Subdivision of T.32 S., R.25 E.

CHAINS

	Land, rolling.
	Soil, sandy loam, and loose rock, 2nd. rate.
	Subsoil, sandstone.
	No timber.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth on 80.02chs.
	N.0°01'W., bet. secs. 26 and 27.
	Over rolling land, through dense undergrowth.
21.50	Wash, 15ft. deep, 25ft. wide, drains NE.
40.00	Set an iron post 3ft. long, 1 ins. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 27 in W. half, and S 26 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, 1 ft. high W. of cor.
60.00	Corral, bears E. 8 chs.
70.50	Log cabin, bears W. 3 chs.
76.00	Top of sandstone ledges, 25ft. high, bear NE. and SW.
	Abrupt descent.
80.00	Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 22-23-26 and 27, marked on brass cap, T 32 S S 22 in NW. R 25 E S 23 in NE. S 26 in SE. and S 27 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.
	Land, rolling.
	Soil, sandy loam, loose rock and sandstone ledges, 3d. rate.
	Subsoil, sandstone.
	No timber.
	Undergrowth, sagebrush.
	Land, covered with dense undergrowth on 80.00chs.

October 19: At 11h. 45m., a.m., l.m.t., I set off 9°46'S. on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is 38°01'N. Thence I run N.89°53'E., on random line bet. secs. 23 and 26.

Subdivision of T.32 S., R.25 E.

CHAINS	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line 2 lks. N. of the cor. of secs. 23-24-25 and 26. Thence I run S. $89^{\circ}54'W.$, on true line bet. secs. 23 and 26. Over rolling land, through dense undergrowth.
40.02	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 23 in N. half, and S 26 in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
76.10	Top of sandstone ledges, 35ft. high, bear N. and S. Abrupt descent.
78.99	Wash, 25ft. deep, 30ft. wide, in the bottom of East Canon, drains NW. Ascend..
80.04	The cor. of secs. 22-23-26 and 27. Land, rolling and mountainous. Soil, sandy loam on first 75.00chs., 1st. rate, balance sandstone ledges and loose rock, 4th. rate. Subsoil, sandstone. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.04chs.
	N. $0^{\circ}01'W.$, bet. secs. 22 and 23. Descend over sandstone ledges, through dense undergrowth.
1.15	Wash, 25ft. deep, 30ft. wide, drains NW. Abrupt ascent over sandstone ledges.
3.60	Top of ledges, 40ft. high, bear NW. and SE. Enter scatter-timber. Rolling land.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 22 in W. half, and S 23 in E. half; from which A cedar 16ins. dia., bears, N. $42^{\circ}32'W.$, 13 lks. dist., marked $\frac{1}{4}$ S 23 BT. A cedar 8ins. dia., bears, N. $70^{\circ}50'W.$, 94 lks. dist., marked $\frac{1}{4}$ S 22 BT.

Subdivision of T.32 S., R.25 E.

CHAINS

- 45.80 Ravine, 55ft. deep, 125ft. wide, drains W.
60.40 Ravine, 35ft. deep, 100ft. wide, drains W.
73.90 Ravine, 80ft. deep, 200ft. wide, drains SW. Leave
scattering timber.
80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground
for cor. of secs. 14-15-22 and 23, marked on brass cap,
T 32 S S 15 in NW.
R 25 E S 1 $\frac{1}{4}$ in NE.
S 23 in SE. and
S 22 in SW. quadrant; raise a mound of stone, 2ft. base,
 $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
Land, mountainous and rolling.
Soil, sandy loam, loose rock and sandstone ledges, 4th. rate.
Subsoil, sandstone.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 80.00chs.

N.89°54'E., on random line bet. secs. 14 and 23.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.04 Intersect N. and S. line 9 lks. S. of the cor. of secs.
13-1 $\frac{1}{4}$ -23 and 24.
Thence I run
S.89°50'W., on true line bet. secs. 1 $\frac{1}{4}$ and 23.
Over rolling land, through dense undergrowth.
18.00 Enter scattering timber.
36.94 Wash, 10ft. deep, 15ft. wide, drains SW.
40.02 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 1 $\frac{1}{4}$ in N. half,
and S 23 in S. half; from which
A pinon 6ins. dia., bears, N.72°30'W., 128 lks. dist.,
marked $\frac{1}{4}$ S 14 BT.
A pinon 12ins. dia., bears, S.74°30'W., 221 lks. dist.,
marked $\frac{1}{4}$ S 23 BT.
71.60 Ravine, 75ft. deep, 175ft. wide, drains SW.
7 $\frac{1}{4}$.30 Leave scattering timber.
80.04 The cor. of secs. 14-15-22 and 23.

Subdivision of T.32 S., R.25 E.

CHAINS

Land, rolling.

Soil, sandy loam on first .70.00chs., 1st. rate, balance sandy loam and loose rock, 3d. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.04chs.

October 19, 1911.

October 20: For solar observation see page 7 of these notes. At 11h.45m., a.m., l.m.t., I set off 10°08' S., on the decl. arc, and at the cor. of secs. 14-15-22 and 23, observe the sun on the meridian, the resulting lat. is 38°02' N. Thence I run

N.0°01' W., bet. secs. 14 and 15.

Over rolling land, through dense undergrowth.

9.20 Enter scattering timber.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 in W. half, and S 1 $\frac{1}{4}$ in E. half; from which

A pinon 8ins. dia., bears, S.55°50'E., 197 lks. dist., marked $\frac{1}{4}$ S 14 BT.

A pinon 10ins. dia., bears, N.55°50'W., 232 lks. dist., marked $\frac{1}{4}$ S 15 BT.

68.00 Leave dense undergrowth. Enter heavy timber, bears E. and W.

80.00 Set an iron post 3ft. long, 2ins. dia., 2 $\frac{1}{4}$ ins. in the ground for cor. of secs. 10-11-14 and 15, marked on brass cap, T 32 S 8 10 in NW.

R 25 E S 11 in NE.

S 1 $\frac{1}{4}$ in SE. and

S 15 in SW. quadrant; from which

A pinon 8ins. dia., bears, N.86°30'E., 63 lks. dist., marked T 32 S R 25 E S 11 BT.

A pinon 8ins. dia., bears, S.61°00'E., 73 lks. dist., marked T 32 S R 25 E S 14 BT.

Subdivision of T.32 S., R.25 E.

CHAINS

A pinon 10ins.dia., bears, S. $82^{\circ}00'$ W., 96 lks. dist.,
marked T 32 S R 25 E S 15 BT.

A pinon 10ins.dia., bears, N. $6^{\circ}05'$ W., 42 lks. dist.,
marked T 32 S R 25 E S 10 BT.

Land, rolling.

Soil, sandy loam, 2nd. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-growth on 80.00chs.

N. $89^{\circ}50'$ E., on random line bet. secs. 11 and 14.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S. line 9 lks. N. of the cor. of secs.
11-12-13 and 14.

Thence I run

S. $89^{\circ}54'$ W., on true line bet. secs. 11 and 14.

Over rolling land, through dense undergrowth and scatter-ing timber.

40.01 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 11 in N. half,
and S 14 in S. half; from which

A pinon 10ins.dia., bears, N. $44^{\circ}02'$ W., 15 lks. dist.,
marked $\frac{1}{4}$ S 11 BT.

A pinon 16ins.dia., bears, S. $43^{\circ}35'$ W., 76 lks. dist.,
marked $\frac{1}{4}$ S 14 BT.

45.30 Wash, 25ft. deep, 35ft. wide, drains SW.

74.00 Leave dense undergrowth. Enter heavy timber, bears N.
and S.

80.02 The cor. of secs. 10-11-14 and 15.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Subdivision of T. 32 S., R. 25 E.

CRAIG

Heavily timbered land or land covered with dense undergrowth and scattering timber on 50.020ms.

October 20, 1911.

Malvin H. Hart
U.S. Surveyor

October 23: At 7h.45m., a.m., l.m.t., I set off $38^{\circ}03'N.$ on the lat. arc, $11^{\circ}07'S.$, on the decl. arc, and at the cor. of secs. 10-11-1" and 15, determine a meridian with the solar. Thence I run

$8.0^{\circ}01'W.$, bet. secs. 10 and 11.

Over rolling land, through heavy timber.

8.00 Leave heavy timber, bears E. and W. Enter scattering timber and dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{2} S 10$ in W. half, and S 11 in E. half; from which

A pinon 16ins. dia., bears, N. $12^{\circ}31'E.$, 269 lks. dist. marked $\frac{1}{2} S 11$ BT.

A pinon 10ins. dia., bears, N. $43^{\circ}00'W.$, 21" lks. dist. marked $\frac{1}{2} S 10$ BT.

56.00 Wash, 15ft. deep, 20ft. wide, drains W.

62.00 Leave dense undergrowth. Enter heavy timber, bears NE. and SW.

80.00 Set an iron post 3ft. long, 21ins. dia., 24ins. in the ground for cor. of secs. 2-3-10 and 11, marked on brass cap, T 32 S S 3 in NW.

R 25 E S 2 in NE.

S 11 in SE. and

S 10 in SW, quadrant; from which

A pinon 30ins. dia., bears, W. $81^{\circ}15'E.$, 15 lks. dist., marked T 32 S R 25 E S 2 BT.

A pinon 9ins. dia., bears, S. $65^{\circ}00'E.$, 45 lks. dist., marked T 32 S R 25 E S 11 BT.

A cedar 10ins. dia., bears, S. $36^{\circ}35'W.$, 25 lks. dist., marked T 32 S R 25 E S 10 BT.

A pinon 10ins. dia., bears, N. $39^{\circ}00'W.$, 51 lks. dist.,

Subdivision of T.32 S., R.25 E.

CHAINS

marked T 32 S R 25 E S 3 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense undergrowth and scattering timber on 80.00chs.

N. $89^{\circ}54' E.$, on random line bet. secs. 2 and 11.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line 18 lks. S. of the cor. of secs. 1-2-11 and 12.

Thence I run.

S. $89^{\circ}46' W.$, on true line bet. secs. 2 and 11.

Over rolling land, through dense undergrowth.

37.80 Leave dense undergrowth. Enter heavy timber, bears N. and S.

39.98 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 2 in N. half, and S 11 in S. half; from which

A pinon 9ins. dia., bears, N. $3^{\circ}53' W.$, 29 lks. dist., marked $\frac{1}{4}$ S 2 BT.

A pinon 8ins. dia., bears, S. $8^{\circ}57' E.$, 40 lks. dist., marked $\frac{1}{4}$ S 11 BT.

79.96 The cor. of secs. 2-3-10 and 11.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or heavy timber on

79.96chs.

October 23: At 11h.45m., a.m., l.m.t., I set off $11^{\circ}12' S.$, on the decl. arc, and at the cor. of secs. 2-3-10 and 11, observe the sun on the meridian, the resulting lat. is

Subdivision of T.32 S., R.25 E.

CHAINS	
	38°03'N. Thence I run N.0°01'W., on random line bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
120.60	Intersect the N. bdy. of Tp. 3 lks. W. of the re-established cor. of secs. 2-3-3 ⁴ and 35, heretofore described. Thence I run South, on true line bet. secs. 2 and 3. Over rolling land, through dense undergrowth and scattering timber.
5.60	Leave scattering timber.
32.60	Enter scattering timber.
66.10	Leave dense undergrowth. Enter heavy timber, bears NE. and SW.
80.60	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 in W. half, and S 2 in E. half; from which A cedar 7ins. dia., bears, S.42°34'E., 41 lks. dist., marked $\frac{1}{4}$ S 2 BT. A pinon 18ins. dia., bears, S.19°25'W., 43 lks. dist., marked $\frac{1}{4}$ S 3 BT.
82.20	Leave heavy timber, bears NE, and SW. Enter dense undergrowth.
100.05	Wash, 15ft. deep, 20ft. wide, drains SW.
105.60	Leave dense undergrowth. Enter heavy timber, bears NE. and SW.
120.60	The cor. of secs. 2-3-10 and 11. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or heavy timber on 120.60chs.

October 23, 1911.

Eben B Andrews
U.S. Transitman.

Subdivision of T.32 S., R.25 E.

CHAINS

October 21: At 7h.45m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat. arc, $10^{\circ}25'S.$, on the decl. arc, and determine a meridian with the solar at the re-established cor. of secs. 3-4-33 and 3⁴, heretofore described, on S.bdy. of Tp. Thence I run

N. $0^{\circ}02'W.$, bet. secs. 33 and 3⁴.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 in W. half, and S 3⁴ in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

68.09 Wagon road, course NE. and SW.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 27-28-33 and 3⁴, marked on brass cap, T 32 S S 28 in NW.

R 25 E S 27 in NE.

S 3⁴ in SE. and

S 33 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandstone.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

N. $89^{\circ}55'W.$, on random line bet. secs. 27 and 3⁴.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.98 Intersect N. and S. line 7 lks. N. of the cor. of secs. 26-27-34 and 35.

Thence I run

S. $89^{\circ}58'W.$, on true line bet. secs. 27 and 3⁴.

Over rolling land, through dense undergrowth.

6.20 Wash, 10ft. deep, 20ft. wide, drains NE.

39.99 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground

Subdivision of T.32 S., R.25 E.,

CHAINS	for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 27 in N. half, and S 3 $\frac{1}{4}$ in S. half; dig pits 18x18x12 ins. E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
61.15	Wash, 10ft. deep, 25ft. wide, drains NE.
63.88	Wagon road, course NE. and SW.
79.98	The cor. of secs. 27-28-33 and 3 $\frac{1}{4}$. Land, rolling. Soil, sandy loam and loose rock, 2nd. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 79.98chs.
40.00	N. 0°02' W., bet. secs. 27 and 28. Over rolling land, through dense undergrowth. Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 28 in W. half, and S 27 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 21-22-27 and 28, marked on brass cap, T 32 S S 21 in NW. R 25 E S 22 in NE. S 27 in SE. and S 28 in SW. quadrant; dig pits 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.

October 21: At 11h.45m., a.m., l.m.t., I set off 10°29'S.,

Subdivision of T.32 S., R.25 E.

CHAINS

on the decl. arc, and at the above cor., observe the sun on the meridian, the resulting lat. is $38^{\circ}01'N$.

Thence I run

N. $89^{\circ}58'E$., on random line bet. secs. 22 and 27.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.90 Intersect N. and S. line 5 lks. N. of the cor. of secs. 22-23-26 and 27.

Thence I run

West, on true line bet. secs. 22 and 27.

Ascend along the south side of East Canon, through dense undergrowth.

6.00 Begin abrupt ascent over sandstone ledges.

7.20 Top of ledges, 35ft. high, bear N. and S. Thence over rolling land.

32.80 Wash, 30ft. deep, 40ft. wide, drains NE.

39.95 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 22$ in N. half, and S 27 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

79.90 The cor. of secs. 21-22-27 and 28.

Land, rolling.

Soil, sandy loam, loose rock and sandstone ledges, 3d. rate.

Subsoil, sandstone.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 79.90chs.

N. $0^{\circ}02'W$., bet. secs. 21 and 22.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 21$ in W. half, and S 22 in E. half; dig pits 18x18x12 ins., N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 15-16-21 and 22, marked on brass cap,

Subdivision of T.32 S., R.25 E.

CHAINING

T 32 S S 15 in NW.

R 25 E S 15 in NE.

S 22 in SE. and

S 21 in SW. quadrant; dig pits 18x18x12 ins., in each sec.
5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft.
high N. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

East, on random line bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.98 Intersect N. and S. line 7 lks. N. of the cor. of secs.
14-15-22 and 23.

Thence I run

N.29°57'W., on true line bet. secs. 15 and 22.

Descend over mountainous land, through dense undergrowth.

5.50 Ravine, 45 ft. deep, 75 ft. wide, drains S. Thence along
rim of canon.

20.35 Top of sandstone ledges, 75 ft. high, bear N. and S.
Abrupt descent.

25.80 Wash, 30 ft. deep, 40 ft. wide, in the bottom of East Canon,
drains NW.

Abrupt ascent over sandstone ledges.

27.90 Top of ledges, 75 ft. high, bear N. and S. Thence over
rolling land.

39.99 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 in N. half,
and S 22 in S. half; dig pits 18x18x12 ins., E. and W. of
post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base,
1 $\frac{1}{2}$ ft. high N. of cor.

42.30 Enter scattering timber.

49.55 Leave scattering timber.

79.92 The cor. of secs. 15-16-21 and 22.

Subdivision of T.32 S., R.25 E.

CHAINS

Land, mountainous and rolling.
Soil, sandy loam, loose rock and sandstone ledges on first
30.00chs., 4th. rate, balance sandy loam, 1st. rate.
Subsoil, sandstone.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Mountainous land or land covered with dense undergrowth
on 79.98chs.

October 21, 1911.

October 23: At 7h.45m., a.m., l.m.t., I set off $38^{\circ}02'N$. on
the lat. arc, $11^{\circ}07'S$., on the decl. arc, and determine a
meridian with the solar at the cor. of secs. 15-16-22
and 21. Thence I run

N. $0^{\circ}02'W$., bet. secs. 15 and 16.

Over rolling land, through dense undergrowth.

28.47 Wash, 30ft. deep, 45ft. wide, drains NE.

37.10 Enter scattering timber.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 in W. half,
and S 15 in E. half; from which

A pinon 10ins. dia., bears, S. $58^{\circ}21'E$., 32 lks. dist.,
marked $\frac{1}{4}$ S 15 BT.

A pinon 14ins. dia., bears, N. $31^{\circ}30'W$., 32 lks. dist.,
marked $\frac{1}{4}$ S 16 BT.

69.65 Leave scattering timber.

70.10 Top of sandstone ledges, 150ft. high, bear NW. and SE.

Abrupt descent.

79.30 Wash, 30ft. deep, 40ft. wide, in the bottom of East Canon,
drains NW. Ascend.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground
for cor. of secs. 9-10-15 and 16, marked on brass cap,
T 32 S S 9 in NW.

R 25 E S 10 in NE.

S 15 in SE. and

S 16 in SW. quadrant; dig pits 18x18x12 ins., in each
sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base,

Subdivision of T.32 S., R.25 E.

-24-

CHAINS

- 2ft. high W. of cor.
Land, rolling and mountainous.
Soil, sandy loam on first 65.00chs., 1st. rate, balance
sandy loam, loose rock and sandstone ledges, 4th. rate.
Subsoil, sandstone.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Mountainous land or land covered with dense undergrowth
on 80.00chs.
-
- S.89°57' E., on random line bet. secs. 10 and 15.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect N. and S. line 7 lks. S. of the cor. of secs.
10-11-1⁴ and 15.
Thence I run
West, on true line bet. secs. 10 and 15.
Over rolling land, through scattering timber and dense
undergrowth.
37.00 Wash, 25ft. deep, 30ft. wide, drains SW.
40.05 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 in N. half,
and S 15 in S. half; from which
A pinon 13ins. dia., bears, N.11°15' W., 17 lks. dist.,
marked $\frac{1}{4}$ S 10 BT.
A pinon 1⁴ins. dia., bears, S.32°45' W., 31 lks. dist.,
marked $\frac{1}{4}$ S 15 BT.
7¹.15 Leave scattering timber.
7¹.20 Top of sandstone ledges, 150ft. high, bear NW. and SE.
Abrupt descent.
77.30 Foot of ledges. Gradual descent.
80.10 The cor. of secs. 9-10-15 and 16.
Land, rolling and mountainous.
Soil, sandy loam on first 70.00chs., 1st. rate, balance
sandy loam, loose rock and sandstone ledges, 4th. rate.
Subsoil, sandstone.
Timber, cedar and pinon.

Subdivision of T.32 S., R.25 E.

CHAINS

Undergrowth, sagebrush.

Mountainous land or land covered with dense undergrowth on 80.10chs.

October 23: At 11h.45m., a.m., l.m.t., I set off $11^{\circ}12' S.$, on the decl. arc, and at the cor. of secs. 9-10-15 and 16, observe the sun on the meridian, the resulting lat. is $38^{\circ}03' N.$ Thence I run

$N.0^{\circ}02' W.$, bet. secs. 9 and 10.

Ascend along bottom of East Canon, through dense undergrowth.

10.90 Begin abrupt ascent over sandstone ledges.

13.93 Top of sandstone ledges, 150ft. high, bear MW. and SE.

Gradual ascent.

14.10 Enter scattering timber.

19.25 Spur, projects 4chs. W. Descend.

20.48 Top of sandstone ledges, 100ft. high, bear NE. and SW.

Abrupt descent. Leave scattering timber.

23.50 Foot of ledges. Gradual descent along east side of canon.

40.00 The point for the $\frac{1}{4}$ sec. cor. falls in the bottom of a wash, 20ft. deep, 25ft. wide, drains SW; cor. not set. Ascend.

40.23 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground witness for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 9 WC in W. half, and S 10 in E. half; dig pits 18x18x12 ins. N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

51.20 Begin abrupt ascent over sandstone ledges, 50ft. high, bear NE. and SW.

55.10 Top of ledges. Leave dense undergrowth. Enter heavy timber, bears NE. and SW. Rolling land.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 3-4-9 and 10, marked on brass cap, T 32 S S 4 in NW.

R 25 E S 3 in NE.

S 10 in SE. and

S 9 in SW. quadrant; from which

A pinon 15ins. dia., bears, N. $74^{\circ}00' E.$, 70 lbs. dist.,

Subdivision of T.32 S., R.25 E.

CHAINS

marked T 32 S R 25 E S 3 BT.

A pinon 8ins.dia., bears, S. $14^{\circ}20' E.$, 50 lks. dist.,
marked T 32 S R 25 E S 10 BT.

A pinon 12ins. dia., bears, S. $40^{\circ}30' W.$, 60 lks. dist.,
marked T 32 S R 25 E S 9 BT.

A pinon 11ins.dia., bears, N. $72^{\circ}25' W.$, 6 lks. dist.,
marked T 32 S R 25 E S 4 BT.

Land, mountainous and rolling.

Soil, sandy loam, loose rock and sandstone ledges on first
60.00chs., 4th. rate, balance sandy loam, 1st, rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush,

Mountainous land or heavily timbered land on 80.00chs.
October 23, 1911.

Mehan H. H. West
U.S. Transitman.

October 25: At 7h.44m., a.m., l.m.t., I set off $38^{\circ}03' N.$ on
the lat. arc, $11^{\circ}49' S.$, on the decl. arc, and determine a
meridian with the solar at the cor. of secs. 3-4-9 and 10,
Thence I run

East, on random line bet. secs. 3 and 10.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.94 Intersect N. and S. line 11 lks. S. of the cor. of secs.
2-3-10 and 11.

Thence I run

S. $89^{\circ}55' W.$, on true line bet. secs. 3 and 10.

Over rolling land, through heavy timber.

10.15 Wash, 20ft. deep, 25ft. wide, drains SW.

39.97 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3 in N. half,
and S 10 in S. half; from which

A pinon 22ins.dia., bears, N. $85^{\circ}15' E.$, 4 lks! dist.,
marked $\frac{1}{4}$ S 3 BT.

A pinon 24ins.dia., bears, S. $48^{\circ}50' W.$, 67 lks. dist.,
marked $\frac{1}{4}$ S 10 BT.

Subdivision of T.32 S., R.25 E.

CHAINS	
47.60	Top of sandstone ledges, 30ft. high, bears NE. and SW.
47.80	Foot of ledges. Gradual descent.
53.37	Wash, 15ft. deep, 25ft. wide, drains SW. Ascend.
59.00	Begin abrupt ascent over sandstone ledges.
59.45	Top of ledges 35ft. high, bear NE. and SW. Thence rolling.
79.94	The cor. of secs. 3-4-9 and 10. Land, rolling and mountainous. Soil, sandy loam on first 45.00 chs., 1st. rate, balance sandy loam, loose rock and sandstone ledges, 3d. rate. Subsoil, sandstone. Timber, cedar and pinon. Heavily timbered land on 79.94 chs.
October 25: At 11h.44m., a.m., l.m.t., I set off $11^{\circ}54' S.$, on the decl. arc, and at the cor. of secs. 3-4-9 and 10, observe the sun on the meridian, the resulting lat. is $38^{\circ}03' N.$ Thence I run	
40.00	N. $0^{\circ}02' W.$, on random line bet. secs. 3 and 4. Set temp. $\frac{1}{4}$ sec. cor.
120.74	Intersect the N. bdy. of Tp. 4 lks. E. of the re-established cor. of secs. 3-4-33 and 34, heretofore described. Thence I run S. $0^{\circ}03' E.$, on true line bet. secs. 3 and 4. Over rolling land, through heavy timber. Leave heavy timber, bears NE. and SW. Enter scattering timber and dense undergrowth.
14.24	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S \frac{1}{4} W.$ half, and S 3 in E. half; from which
80.74	A pinon 8ins. dia., bears, N: $32^{\circ}02' E.$, 75 lks. dist., marked $\frac{1}{4} S 3 BT.$ A pinon 6ins. dia., bears, S. $89^{\circ}25' W.$, 73 lks. dist., marked $\frac{1}{4} S 4 BT.$
103.30	Leave dense undergrowth. Enter heavy timber, bears NE. and SW.
120.74	The cor. of secs. 3-4-9 and 10.

Subdivision of T.32 S., R.25 E.

CHAINS

Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, sandstone.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Heavily timbered land or land covered with dense under-growth on 120.7⁴chs.

October 25, 1911.

Survey commenced October 20, 1911, and executed with the instrument described in book "D" of this survey. I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of secs. 4-5-32 and 33, heretofore described, in approximate lat. 37°59'N., long. 109°08'W., I set off 37°59'N., on the lat. arc, 10°10'S. on the decl. arc, and at 3h.45m., p.m., l.m.t., determine a meridian with the solar and mark a point in the line thereof, on a stone firmly set in the ground 5chs. N. of the cor.

October 20, 1911.

October 21: At 5h.30m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined, on a peg driven in the ground 5chs. N. of my station.

At 7 a.m., I lay off the azimuth of Polaris, 1°29' to the east, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the mark falls 0.3 ins. east of the mark determined by the solar.

At 7h.45m..a.m.,l.m.t., I set off 37°59'N.on the lat. arc 10°25'S., on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the

Subdivision of T.32 S., R.25 E.

CHAINS

stone already set 5chs. N. of my station; this mark falls 0.3ins. east of the meridian established by the Polaris observation. The solar apparatus, by a.m. and p.m. observations, defines positions for meridians, about $0^{\circ}16'$ east and west, respectively, of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.30m., a.m. is N. $15^{\circ}35'W.$, the angle thus determined gives the mag. decl. $15^{\circ}35'E.$,

From the re-established cor. of secs. 4-5-32 and 33, heretofore described, on S.bdy. of Tp., I run

N. $0^{\circ}03'W.$, bet. secs. 32 and 33.

Over rolling land, through dense undergrowth.

18.60 Wagon road, course NE. and SW.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 in W. half, and S 33 in E. half; dig pits 18x18x12 ins., N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

50.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 28-29-32 and 33, marked on brass cap, T 32 S S 29 in NW.

R 25 E S 28 in NE.

S 33 in SE. and

S 32 in SW. quadrant; dig pits 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

N. $89^{\circ}55'E.$, on random line bet. secs. 28 and 33.

Subdivision of T.32 S., R.25 E.

CHAINS. 40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 7 lks. N. of the cor. of secs. 27-28-33 and 34. Thence I run S.89°58'W., on true line bet. secs. 28 and 33. over rolling land, through dense undergrowth.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 28 in N. half, and S. 33 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of the cor.
80.00	The cor. of secs. 28-29-32 and 33. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense indergrowth on 80.00chs.
	N.0°03'W., bet. secs. 28 and 29. Over rolling land, through dense undergrowth. Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 29 in W. half, and S. 28 in E. half; dig pits 18x18x12 ins., N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor. Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 20-21-28 and 29, marked on brass cap, T 32 S S 20 in NW. R 25 E S 21 in NE. S 28 in SE. and S 29 in SW. quadrant; dig pits 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay.

Subdivision of T. 32 S., R. 25 E.

Chains. No timber. Undergrowth, sagebrush.

Land, covered with dense undergrowth on 80.00 chs.

October 21: At 11h 45m a.m.l.m.t., I set off $10^{\circ}29' S.$

on the decl. arcl and at the above cor., observe the sun on the meridian; the resulting lat. is $38^{\circ}01' N.$

Thence I run

$N.89^{\circ}58' E.$ on random line bet. secs. 21 and 28,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.00 Intersect N. and S. line 2 lks.S.of the cor. of secs. 21, 28,
27 and 28. Thence I run

$S.89^{\circ}57' W.$ on true line bet. secs. 21 and 28,

Over rolling land; through dense undergrowth,

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4} S 21$ in
N.half, and S 28 in S.half; dig pits 18 x 18 x 12 ins.
E. and W. of post, 3 ft. dist.; and raise a mound of
earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

80.00 The cor. of secs. 20, 21, 28, and 29.

Land, rolling.

Soil, sandy loam; 1st rate. Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth 80.00 chs.

$N.0^{\circ} 03' W.$ bet. secs. 20 and 21,

Over rolling land; through dense undergrowth.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4} S 20$ in
W.half, and S 21 in E.half; dig pits 18 x 18 x 12 ins.
N. and S. of post 3 ft. dist.; and raise a mound of earth
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the
ground, for cor. of secs. 16, 17, 20, and 21, marked on

Subdivision of T. 32 S., R. 25 E.

Chains.

Brass cap.

T 32 S S 17 in NW.

R 25 E S 16 in NE.

S 21 in SE.; and

S 20 in SW.quadrant; dig pits 18 x 18 x 12 ins. in each sec., $5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Land, rolling.

Soil, sandy loam; 1st rate. Subsoil, clay.

No timber. Undergrowth, sagebrush.

Land, covered with dense undergrowth on 80.00 chs.

N. $89^{\circ}57' E.$ on random line bet.secs.16 and 21,

- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.00 Intersect N.and S.line at the cor.of secs.15,16,21, and 22. Thence I run
S. $89^{\circ}57' W.$ on true line bet.secs.16 and 21,
Over rolling land; through dense undergrowth.
- 40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the
ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 16 in
N.half; and S 21 in S.half; dig pits 18 x 18 x 12 ins.
E.and W.of post 3 ft.dist.; and raise a mound of earth
 $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

80.00 The cor.of secs.16,17,20, and 21.

Land, rolling.

Soil, sandy loam; 1st rate. Subsoil, clay.

No timber. Undergrowth, sagebrush.

Land, covered with dense undergrowth on 80.00 chs.

October 21, 1911.

October 24: At 7h 44m a.m.l.m.t., I set off $38^{\circ} 02' N.$ on
the lat.arc; $11^{\circ} 26' S.$ on the decl.arc; and determine a
meridian with the solar at the cor.of secs.16,17,20,
and 21. Thence I run N. $0^{\circ}03' W.$ bet.secs.16 and 17,
Over rolling land; through dense undergrowth.

30.10 Leave dense undergrowth. Enter heavy timber,bears E.and W.

Subdivision of T. 32 S., R. 25 E.

CHAINS

40.00

Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 17 in W. half,
and S 16 in E. half; from which

A pinon 7ins. dia., bears, S. $57^{\circ}03'$ E., 32 lks. dist.,
marked $\frac{1}{4}$ S 16 BT.

A pinon 6ins. dia., bears, S. $84^{\circ}55'$ W., 31 lks. dist.,
marked $\frac{1}{4}$ S 17 BT.

70.85

Top of sandstone ledges, 70ft. high, bear NE. and SW.

Abrupt descent.

74.70

Wash, 25ft. deep, 35ft. wide in the bottom of Iron Spring
Canon, drains NE. Abrupt ascent over sandstone ledges.

77.40

Top of ledges, 70ft. high, bear NE. and SW.

Gradual ascent.

80.00

Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground

for cor. of secs. 8-9-16 and 17; marked on brass cap,

T 32 S S 8 in NW.

R 25 E S 9 in NE.

S 16 in SE. and

S 17 in SW. quadrant; from which

A pinon 8ins. dia., bears, N. $38^{\circ}00'$ E., 137 lks. dist.,
marked T 32 S R 25 E S 9 BT.

A pinon 6ins. dia., bears, S. $85^{\circ}20'$ E., 46 lks. dist.,
marked T 32 S R 25 E S 16 BT.

A pinon 13ins. dia., bears, S. $25^{\circ}00'$ W., 161 lks. dist.,
marked T 32 S R 25 E S 17 BT.

A pinon 12ins. dia., bears, N. $75^{\circ}40'$ W., 42 lks. dist.,
marked T 32 S R 25 E S 8 BT.

Land, rolling and mountainous.

Soil, sandy loam on first 60.00chs., 1st. rate, balance
sandy loam, loose rock and sandstone ledges, 4th. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense under-
growth on 80.00chs.

N. $89^{\circ}57'$ E., on random line bet. secs. 9 and 16.

Subdivision of T.32 S., R.25 E.

CHAINS	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 9-10-15 and 16. Thence I run $S.89^{\circ}57'W.$, on true line bet. secs. 9 and 16.
.51	Descend over mountainous land, through dense undergrowth. Wash, 30ft. deep, ^{10ft.} wide in the bottom of East Canon, drains NW. Abrupt descent over sandstone ledges.
5.30	Top of ledges, 150ft. high, bear NW. and SE. Leave dense undergrowth. Enter heavy timber, bears NW. and SE. Thence over rolling land.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 9 in N. half, and S 16 in S. half; from which A pinon 1 ¹ / ₂ ins. dia., bears, $N.14^{\circ}30'E.$, 46 lks. dist., marked $\frac{1}{4}$ S 9 BT. A pinon 6ins. dia., bears, $S.51^{\circ}25'E.$, 77 lks. dist., marked $\frac{1}{4}$ S 16 BT.
68.45	Top of sandstone ledges, 75ft. high, bear NE. and SW. Abrupt descent..
72.75	Wash, 25ft. deep, 35ft. wide in the bottom of Iron Spring Canon, drains NE. Abrupt ascent over sandstone ledges.
76.50	Top of ledges, 75ft. high, bear NE. and SW. Ascend.
80.00	The cor. of secs. 8-9-16 and 17. Land, mountainous and rolling. Soil, sandy loam, loose rock and sandstone ledges, 4th. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Mountainous land or heavily timbered land on 80.00chs.

October 24: At 11h. 44m., a.m., l.m.t., I set off $11^{\circ}33'S.$, on the decl. arc, and at the cor. of secs. 8-9-16 and 17, observe the sun on the meridian, the resulting lat. is $38^{\circ}03'N.$ Thence I run
 $N.0^{\circ}03'W.$, bet. secs. 8 and 9.

Subdivision of T. 32 S., R. 25 E.

CHAINS

	Over rolling land, through heavy timber.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 8 in W. half, and S 9 in E. half; from which A pinon 5ins. dia., bears N. $26^{\circ}02'$ E., 25 lks. dist., marked $\frac{1}{4}$ S 9 BT. A pinon 12ins. dia., bears, N. $35^{\circ}35'$ W., 63 lks. dist., marked $\frac{1}{4}$ S 8 BT.
62.70	Top of sandstone ledges, 175ft. high, bear NW. and SE. Abrupt descent.
67.00	Foot of ledges. Gradual descent.
80.00	Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 4-5-8 and 9, marked on brass cap, T 32 S S 5 in NW. R 25 E S 4 in NE. S 9 in SE. and S 8 in SW. quadrant; from which A pinon 6ins. dia., bears, N. $79^{\circ}20'$ E., 102 lks. dist., marked T 32 S R 25 E S 4 BT. A pinon 8ins. dia., bears, S. $55^{\circ}00'$ E., 48 lks. dist., marked T 32 S R 25 E S 9 BT. A pinon 8ins. dia., bears S. $64^{\circ}30'$ W., 60 lks. dist., marked T 32 S R 25 E S 8 BT. A pinon 15ins. dia., bears, N. $21^{\circ}20'$ W., 150 lks. dist., marked T 32 S R 25 E S 5 BT.
	Land, rolling and mountainous. Soil, sandy loam, loose rock and sandstone ledges, 4th. rate. Subsoil, sandstone. Timber, cedar and pinon. Mountainous or heavily timbered land on 80.00chs.

October 24, 1911.

October 30: At 7h. 44m., a.m., l.m.t., I set off $38^{\circ}03'$ N. on the lat. arc, $13^{\circ}31'$ S., on the decl. arc, and determine a meridian with the solar at the cor. of secs. 4-5-8 and 9. Thence I run N. $89^{\circ}57'$ E., on random line bet. secs. 4 and 9.

Subdivision of T. 32 S., R. 25 E.

CHAINS 40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect N. and S. line 2 lks. N. of the cor. of secs. 3-4-9 and 10. Thence I run S.89°58'W., on true line bet. secs. 8 and 9. Over rolling land, through heavy timber.
40.07	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S $\frac{1}{4}$ in N. half, and S $\frac{1}{4}$ in S. half; from which A pinon 6ins. dia., bears, N.13°25'W., 53 lks. dist.. marked $\frac{1}{4}$ S $\frac{1}{4}$ BT. A pinon 8ins. dia., bears, S.15°02'E., 15 lks. dist., marked $\frac{1}{4}$ S $\frac{1}{4}$ BT.
40.90	Top of sandstone ledges, 175ft. high, bear NW. and SE. Abrupt descent.
41.29	Foot of ledges. Gradual descent.
62.61	wash, 35ft. deep, 45ft. wide in the bottom of East Canon, drains NW. Ascend.
80.14	The cor. of secs. 4-5-8 and 9. Land, rolling and mountainous. Soil, sandy loam on first 40.00chs., 1st. rate, balance sandy loam, loose rock and sandstone ledges, 4th. rate. Subsoil, sandstone. Timber, cedar and pinon. Mountainous land or heavily timbered land on 80.14chs.

October 30: At 11h. 44m., a.m., l.m.t., I set off 13°36'S.,
on the decl. arc, and at the cor. of secs. 4-5-8 and 9,
observe the sun on the meridian, the resulting lat. is
38°03'N. Thence I run

N.0°03'W., on random line bet. secs. 4 and 5.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
120.82 Intersect the NN. bdy. of Tp. at the re-established cor. of secs. 4-5-32 and 33, heretofore described. Thence I run S.0°03'E., on true line bet. secs. 4 and 5.

Subdivision of T.32 S., R'25 E.

CHAINS	Over mountainous land, through heavy timber.
6.50	Ravine, 75ft. deep, 300ft. wide, drains SW.
73.32	Top of sandstone ledges, 125ft. high, bear NW. and SE. Abrupt descent.
80.82	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 in W. half, and S 4 in E. half; from which A pinon 6ins. dia., bears, S. $80^{\circ}50'E.$, 145 lks. dist., marked $\frac{1}{4}$ S 4 BT. A pinon 5ins. dia., bears, N. $63^{\circ}00'W.$, 186 lks. dist., marked $\frac{1}{4}$ S 5 BT.
81.50	Wash, 35ft. deep, 40ft. wide in the bottom of East Canon, drains NW. Abrupt ascent over sandstone ledges.
87.53	Top of ledges, 125ft. high, bear NW. and SE. Gradual ascent.
120.82	The cor. of secs. 4-5-8 and 9. Land, mountainous. Soil, sandy loam, loose rock and sandstone ledges, 4th. rate. Subsoil, sandstone. Bedrock.

Timber, cedar and pinon.
Mountainous, heavily timbered land on 120.82chs.

October 30, 1911.

Eben B Andrews
U.S. Transitman.

October 24: At 7h. 44m., a.m., l.m.t., I set off $37^{\circ}59'N.$ on
the lat. arc, $11^{\circ}28'S.$, on the decl. arc, and determine a
meridian with the solar at the re-established cor. of
secs. 5-6-31 and 32, heretofore described, on S.bdy. of Tp.
Thence I run

N. $0^{\circ}03'W.$, bet. secs. 31 and 32.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 31 in W. half,
and S 32 in E. half; dig pits 18x18x12 ins., N. and S. of
post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground

Subdivision of T.32 S., R.25 E.

CHAINS	for cor. of secs. 29-30-31 and 32, marked on brass cap, T 32 S S 30 in NW. R 25 E S 29 in NE. S 32 in SE. and S 31 in SW. quadrant; dig pits 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.00chs.
	N. $89^{\circ}56'$ E., on random line bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.,
80.08	Intersect N. and S. line 1 $\frac{1}{4}$ lks. N. of the cor. of secs. 28-29-32 and 33. Thence I run
	N. $89^{\circ}58'$ W., on true line bet. secs. 29 and 32. Over rolling land, through dense undergrowth.
40.04	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 29 in N. half, and S 32 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor!
80.08	The cor. of secs. 29-30-31 and 32. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber. Undergrowth, sagebrush. Land covered with dense undergrowth on 80.08chs.
	October 2 nd : At 11h.44m., a.m., 1.m.t., I set off 11°33'S., on the decl arc, and at the cor. of secs. 29-30-31 and 32, observe the sun on the meridian, the resulting lat. is

Subdivision of T.32 S., R.25 E.

CHAINS	38°00' N. Thence I run S.89°57' W., on random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.23	Intersect the W. bdy. of Tp. 2 lks. S. of the re-established cor. of secs. 25-30-31 and 36, heretofore described. Thence I run N.89°58' E., on true line bet. secs. 30 and 31. Over rolling land, through dense undergrowth.
38.23	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 in N. half, and S 31 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
78.23	The cor. of secs. 29-30-31 and 32. Land, rolling. Soil, sandy loam, 1st. rate. Subsoil, clay. No timber, Undergrowth, sagebrush. Land covered with dense undergrowth on 78.23chs.
	N.0°03' W., bet. secs. 29 and 30. Over rolling land, through dense undergrowth.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 30 in W. half, ans S 29 in E. half; dig pits 18x18x12 ins., N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 19-20-29 and 30, marked on brass cap, T 32 S S 19 in NW. R 25 E S 20 in NE. S 29 in SE. and S 30 in SW. quadrant; dig pits 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor. Land, rolling.

Subdivision of T.32 S., R.25 E.

CHAINS

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 80.00chs.

October 24, 1911.

October 25: At 7h.44m., a.m., l.m.t., I set off $38^{\circ}01'N.$ on the lat. arc, $11^{\circ}49'S.$, on the decl. arc, and determine a meridian with the solar at the cor. of secs. 19-20-29 and 30. Thence I run

$S.89^{\circ}58'E.$, on random line bet. secs. 20 and 29.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.98 Intersect N. and S. line 2 lks. N. of the cor. of secs. 20-21-28 and 29.

Thence I run

$N.89^{\circ}57'W.$, on true line bet. secs. 20 and 29.

Over rolling land, through dense undergrowth.

39.99 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 20 in N. half, and S 29 in S. half; dig pits 18x18x12.ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

79.98 The cor. of secs. 19-20-29 and 30.

Land, rolling.

Soil, sandy loam, 1st, rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 79.98chs.

$S.89^{\circ}58'W.$, on random line bet. secs. 19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.,

78.15 Intersect the W. bdy. of Tp. 5 lks. N. of the re-established cor. of secs. 19-24-25 and 30, heretofore described

Thence I run

$N.89^{\circ}56'E.$, on true line bet. secs. 19 and 30.

Subdivision of T.32 S., R.25 E.

CHAINS	Over rolling land, through dense undergrowth.
31.50	Wash, 10ft. deep, 15 ft. wide, drains NE.
38.15	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 in N. half, and S 20 in S. half; dig pits 18x18x12 ins., E. and W. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
78.15	The cor. of secs. 19-20-29 and 30.
	Land, rolling.
	Soil, sandy loam, 1st. rate.
	Subsoil, clay.
	No timber.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth on 78.15 ohs.
	N. 0°03' W., bet. secs. 19 and 20.
	Over rolling land, through dense undergrowth.
29.75	Wash, 15ft. deep, 20ft. wide, drains NE.
40.00	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 19 in W. half, and S 20 in E. half; dig pits 18x18x12 ins., N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
20.00	Set an iron post 3ft. long, 2ins. dia., 24ins. in the ground for cor. of secs. 17-18-19 and 20, marked on brass cap,
	T 32 S S 18 in NW.
	R 25 E S 17 in NE.
	S 20 in SE. and
	S 19 in SW. quadrant; dig pits 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.
	Land, rolling.
	Soil, sandy loam, 1st. rate.
	Subsoil, clay.
	No timber.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth on 20.00 ohs.

Subdivision of T. 32 S., R. 27 E.

SECTIONS

- S. 29°57' W., or random line bet. secs. 17 and 20.
50.00 Set temp. & sec. cor..
79.98 Intersect N. and S. line 5 lks. E. of the cor. of secs.
16-17-19 and 21.
Thence I run
S. 29°55' W., on true line bet. secs. 17 and 20.
Over rolling land, through dense undergrowth.
30.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for & sec. cor., marked on brass cap, & S 17 in E. half,
and S 20 in S. half; dig pits 18x18x12 ins., E. and W. of
post, 3ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base,
1 $\frac{1}{2}$ ft. high N. of cor.
54.50 Wash, 20ft. deep, 25ft. wide, drains NW.
79.98 The cor. of secs. 17-18-19 and 20.
Land, rolling.
Soil, sandy loam, 1st. rate.
Subsoil, clay.
No timber.
Undergrowth, sagebrush.
Land covered with dense undergrowth on 79.98chrs.

October 25: At 11h.44m., a.m., l.m.t. I set off 11°54'S., on
the decl. arc, and at the cor. of secs. 17-18-19 and 20,
observe the sun on the meridian, the resulting lat. is
38°02' N. Thence I run

- S. 29°56' W., on random line bet. secs. 18 and 19.
50.00 Set temp. & sec. cor..
78.01 Intersect the N. bdy. of Tp. 9 lks. S. of the re-established
cor. of secs. 13-18-19 and 24, heretofore described.
Thence I run
East, on true line bet. secs. 18 and 19.
Over rolling land, through dense undergrowth.
52.01 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground
for & sec. cor., marked on brass cap, & S 18 in E. half,
and S 19 in S. half; dig pits 18x18x12 ins., E. and W. of
post, 3ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base,

Subdivision of T.32 S., R.25 E.

CHAINS.

 $1\frac{1}{2}$ ft. high N. of cor.

78.01 The cor. of secs. 17-18-19 and 20.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

No timber.

Undergrowth, sagebrush.

Land covered with dense undergrowth.on 78.01chs.

October 25, 1911.

October 30: At 7h. 44m., a.m., l.m.t., I set off $38^{\circ}02'N$. on the lat. arc, $13^{\circ}31'S.$, on the decl. arc, and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20. Thence I run

N. $0^{\circ}03'W.$, bet secs. 17 and 18.

Over rolling land, through dense undergrowth.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 18 in W. half, and S 17 in E. half; dig pits 18x18x12 ins., N. and S. of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

53.20 Enter scattering timber.

60.45 Leave scattering timber.

74.75 Enter scattering timber.

80.00 Set an iron post 3ft. long, 2ins. dia., 2 $\frac{1}{4}$ ins. in the ground for cor. of secs. 7-8-17 and 18, marked on brass cap, T 32 S S 7 in NW.

R 25 E S 8 in NE.

S 17 in SE. and

S 18 in SW. quadrant; from which

A pinon 10ins. dia., bears, N. $82^{\circ}10'E.$, 120 lks. dist., marked T 32 S R 25 E S 8 BT.

A pinon 7ins. dia., bears, S. $24^{\circ}32'E.$, 78 lks. dist., marked T 32 S R 25 E S 17 BT.

A pinon 5ins. dia., bears, S. $4^{\circ}05'W.$, 49 lks. dist., marked T 32 S R 25 E S 18 BT.

~~-4-~~
Subdivision of T.32 S., R.25 E.

CHAINS

A pinon 8ins.dia., bears, N.59°40'W., 196 lks. dist.,
marked T 32 S R 25 E S 7 BT.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber
on 80.00chs.

S.89°55'E., on random line bet. secs. 8 and 17.

"0.00 Set temp. $\frac{1}{2}$ sec. cor.

79.96 Intersect N. and S. line 2 lks. S. of the cor. of secs.
8-9-16 and 17.

Thence I run

N.89°56'W., on true line bet. secs. 8 and 17.

over rolling land, through heavy timber.

8.70 Leave heavy timber, bears N. and S. Enter dense under-
growth.

35.30 Enter scattering timber.

39.98 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground
for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{2}$ S 8 in N. half,
and S 17 in S. half; from which

A pinon 6ins.dia., bears, N.0°15'W., 18 lks. dist.,
marked $\frac{1}{2}$ S 8 BT.

A pinon 11ins.dia., bears, S.51°45'E., 38 lks. dist.,
marked $\frac{1}{2}$ S 17 BT.

42.20 Leave scattering timber.

50.65 Enter scattering timber.

68.40 Leave scattering timber.

71.15 Enter scattering timber.

79.96 The cor. of secs. 7-8-17 and 18.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Undergrowth, sagebrush.

Subdivision of T. 32 S., R. 25 E.

CHAINS

Timber, cedar and pinon.

Land covered with dense undergrowth or heavy timber on 79.96chs.

October 30: At 11h. 44m., a.m., l.m.t., I set off $13^{\circ}36' S.$ on the decl. arc, and at the cor. of secs. 7-8-17 and 18, observe the sun on the meridian, the resulting lat. is $38^{\circ}03' N.$ Thence I run

West, on random line bet. secs. 7 and 18.

40.00 Set temp. $\frac{1}{4}$ sec cor.

77.96 Intersect the W. bdy. of Tp. 11 lks. N. of the re-established cor. of secs. 7-12-13 and 18, heretofore described. Thence I run

$N.89^{\circ}55' E.$, on true line bet. secs. 7 and 18.

Over rolling land, through dense undergrowth.

37.96 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 7$ in N. half, and S 18 in S. half; dig pits 18x18x12 ins., E. and W., of post, 3ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

54.30 Enter scattering timber.

77.96 The cor. of secs. 7-8-17 and 18.

Land, rolling.

Soil, sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or scattering timber on 77.96chs.

$N.0^{\circ}03' W.$, bet. secs. 7 and 8.

Over rolling land, through dense undergrowth and scattering timber.

44.30 Leave scattering timber.

35.20 Enter scattering timber.

40.00 Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 7$ in W. half, and S 8 in E. half; from which

Subdivision of T. 32 S., R. 25 E.

CHAINS	A pinon 8ins.dia., bears, N. $19^{\circ}30' E.$, 167 lks. dist., marked $\frac{1}{4}$ sec. cor.
	A pinon 6ins.dia., bears, N. $24^{\circ}10' W.$, 62 lks. dist., marked $\frac{1}{4}$ sec. cor.
57.65	Leave scattering timber.
80.00	Set an iron post 3ft.long, 2ins.dia., 2 $\frac{1}{4}$ ins. in the ground for cor. of secs. 5-6-7 and 8, marked on brass cap, T 32 S 8 6 in NW. R 25 E S 5 in NE. S 8 in SE. and S 7 in SW. quadrant; dig pits 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4ft. base, 2ft. high W. of cor.
	Land, rolling.
	Soil, sandy loam, 1st.rate.
	Subsoil, sandstone.
	Timber, cedar and pinon!
	Undergrowth, sagebrush.
	Land covered with dense undergrowth or scattering timber on 80.00chs.
	October 30. 1911. <i>Melvin H. Heist</i> U.S. Transitman.
40.00	October 31: At 7h. 44m., a.m., l.m.t., I set off $38^{\circ}03' N.$ on the lat. arc, $13^{\circ}51' S.$, on the decl. arc, and determine a meridian with the solar at the cor. of secs. 5-6-7 and 8, Thence I run S. $89^{\circ}56' E.$, on random line bet. secs. 5 and 8.
79.98	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line at the cor. of secs. 4-5-8 and 9.
	Thence I run N. $89^{\circ}56' W.$, on true line bet. secs. 5 and 8.
	Ascend over mountainous land, through heavy timber.
15.45	Begin abrupt ascent over sandstone ledges,
19.13	Top of ledges, 175 ft. high, bear NW. and SE. Thence over rolling land,

Subdivision of T.32 S., R.25 E.

CHAINS

39.99 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 5 in N. half, and S 8 in S. half; from which

A pinon 9ins.dia., bears, N. $81^{\circ}20' E.$, 137 lks. dist., marked $\frac{1}{4}$ S 5 BT.

A cedar 1 $\frac{1}{4}$ ins.dia., bears, S. $44^{\circ}05' W.$, 115 lks. dist., marked $\frac{1}{4}$ S 8 BT.

43.65 Leave heavy timber, bears NW. and SE. Enter dense undergrowth.

79.98 The cor. of secs. 5-6-7 and 8.

Land, rolling and mountainous.

Soil, sandy loam, loose rock and sandstone ledges on first 20.00chs., 4th. rate, balance sandy loam, 1st. rate.

Subsoil, sandstone.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Mountainous, heavily timbered land or land covered with dense undergrowth on 79.98chs.

S. $89^{\circ}55' W.$, on random line bet. secs. 6 and 7.

40.00 Set temp. $\frac{1}{4}$ sec. cor.,

77.86 Intersect the W. bdy. of Tp. 5 lks. S. of the re-established cor. of secs. 1-6-7 and 12, heretofore described. Thence I run

N. $89^{\circ}57' E.$, on true line bet. secs. 6 and 7.

Over rolling land, through heavy timber.

27.06 Leave heavy timber, bears NW. and SE. Enter dense undergrowth and scattering timber.

37.86 Set an iron post 3ft.long, 1 in.dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 6 in N. half, and S 7 in S. half; from which

A pinon 13ins.dia., bears, N. $46^{\circ}05' E.$, 240 lks. dist., marked $\frac{1}{4}$ S 6 BT.

A pinon 7ins.dia., bears, S. $17^{\circ}14' W.$, 149 lks. dist., marked $\frac{1}{4}$ S 7 BT.

43.00 Leave scattering timber.

77.86 The cor. of secs. 5-6-7 and 8.

Land, rolling.

Subdivision of T.32 S., R.25 E.

CHAINS	Soil, sandy loam, 1st. rate. Subsoil, sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Heavily timbered land or land covered with dense undergrowth on 77.86chs.
	October 31: At 11h.44m., a.m., l.m.t., I set off $13^{\circ}55' S.$, on the decl. arc, and at the cor. of secs. 5-6-7 and 8, observe the sun on the meridian, the resulting lat. is $38^{\circ}03' N.$ Thence I run N. $0^{\circ}03' W.$, on random line bet. secs. 5 and 6.
40.00	Set temp. $\frac{1}{4}$ sec. c cor.
120.84	Intersect the N. bdy. of Tp. 10 lks. E. of the re-established cor. of secs. 5-6-31 and 32, heretofore described. Thence I run S. $0^{\circ}06' E.$, on true line bet. secs. 5 and 6.
	Over level bottom of East Canon, through dense undergrowth.
1.90	Wash, 25ft. deep, 35 lks. wide, drains NW.
13.20	Begin abrupt ascent over sandstone ledges. Leave dense undergrowth.
14.80	Top of ledges, 175ft. high, bear NW. and SE. Enter heavy timber, bears NW. and SE. Gradual ascent.
75.90	Begin abrupt ascent over sandstone ledges.
78.24	Top of ledges, 200ft. high, bear NW. and SE. Thence over rolling land.
80.84	Set an iron post 3ft. long, 1 in. dia., 26ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 6$ in W. half, and $S 5$ in E. half; from which A cedar 9ins. dia., bears, $S.72^{\circ}50' E.$, 35 lks. dist., marked $\frac{1}{4} S 5$ BT.
	A pinon 9ins. dia., bears, $N.31^{\circ}10' W.$, 46 lks. dist., marked $\frac{1}{4} S 6$ BT.
83.70	Leave heavy timber, bears NW. and SE. Enter dense undergrowth.
120.84	The cor. of secs. 5-6-7 and 8.

Subdivision of T.32 S., R.25 E.

Land, mountainous and rolling.

Soil, sandy loam, loose rock and sandstone ledges on first 80.00 chs., 4th. rate, balance sandy loam, 1st. rate.

Subsoil, sandy loam, 1st. rate.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Mountainous land, heavily timbered land or land covered with dense undergrowth on 120.8⁴ chs.

October 31, 1911.

Chen D. Andrews
U.S. Transitman.

G E N E R A L D E S C R I P T I O N .

This township is situated just north of the divide between San Juan River drainage and Grand River drainage, and the surface with the exception of East Canyon, which drains in a northwesterly direction, from sec. 26, is generally a rolling mesa, sloping to the north.

A heavy growth of cedar and pinon timber is found along the sides of East Canyon, extending about $\frac{1}{2}$ mile from the rim, while the balance of the township is covered with a dense growth of sage brush or scattering cedar and pinon timber and nutritious grasses making this an excellent stock range.

The soil, with the exception of East Canyon and its immediate vicinity, is a rich sandy loam, from 18 to 36 ins. in depth, with a subsoil of clay or gravel, and is capable of producing crops without irrigation, as the average annual precipitation exceeds 20 inches.

The soil of the balance is rocky, with a subsoil of solid sandstone and is fit for grazing only.

There are no settlers in this township.

The cabin in the NE. $\frac{1}{4}$ sec. 27 and the corral in NW $\frac{1}{4}$ sec. 26 are both used by local cattlemen.

The only water in the township are seeping springs in East Canyon, none of which could be seen from any point on any line.

GENERAL DESCRIPTION OF T.32 S., R.25 E.

There are no roads of any importance in this township.
There are no indications of coal, oil or mineral found
in this township.

Mehim H. Heist

Eben B. Andrews
U.S. Transitmen

Volume
#
R0393

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
....., U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of

For certificates of assistants see book "Z" T. 38 S., R. 26 E.

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final cuts or transitmen see book "Z" T. 32 S., R. 26 E.

..... of the
Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 191_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 19_____, 1914.

The foregoing field notes of the survey of the subdivisional lines of Township No. 32 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah.

Melvin B. Heist and Ebenezer B. Andrews
executed by _____
their _____
under their special instructions dated May 22_____, 1911, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

A handwritten signature in black ink, appearing to read "James Kell".
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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FILED

FEB 10 1919

"Z"

E.O.
Heist

MSB.

FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

of

TOWNSHIP NO. 32 SOUTH, RANGE NO. 26 EAST

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Melvin D. Heist and Then B. Andrews

In the capacity of U. S. Surveyors, under instructions dated May 22, 1911,
 issued by the United States Surveyor General to govern surveys included in
 Group No. 12, which were approved by the Commissioner of the General Land
 Office, June 17, 1911, pursuant to authority contained in the Act of
 Congress dated , 1911.

Survey commenced November 6, 1911.

Survey completed November 9, 1911.

22-862 - 2-7-98

Chambers 67-32

Book A-393

INDEX DIAGRAM.

Township 32 SOUTH, Range 26 EAST.

2	3	4	5	6	7	8
6		4		3	2	1
7	8	9		10	11	12
18	17	16		15	14	13
19	20	21		22	23	24
30	29	28		27	26	25
31	32	33		34	35	36

NORTH BOUNDARY OF T.32 S., R.26 E.

Survey commenced November 6, 1911, and executed with the instrument described in book "D", of this survey. I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of Tps. 31 and 32 S. Rs. 25 and 26 E., heretofore described, in approximate latitude $38^{\circ}04'N.$, longitude $109^{\circ}09'W.$, I set off $38^{\circ}04'N.$ on lat.arc, $15^{\circ}50'S.$ on decl.arc, and at 3h.44m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone, firmly set in the ground, 5 chs.N. of the cor.

November 6, 1911

November 7: At 4h.23m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg, driven in the ground, 5 chs.N. of my station.

At 7 a.m., I lay off the azimuth of Polaris, $1^{\circ}29'$ to the east, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

At 7h.44m., a.m., l.m.t., I set off $38^{\circ}04'N.$ on lat.arc, $16^{\circ}02'S.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs.N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $0'10''$ west and $0'10''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

NORTH BOUNDARY OF T.32 S., R.26 E.

CHAINS

The magnetic bearing of the true meridian at 8h.30m., a.m. is N. $15^{\circ}40'W.$, the angle thus determined gives the mag.decl. $15^{\circ}40'E.$

The west 120 chs. of this north bdy. was purported to have been surveyed on a previous survey, but as all of the lines retraced have been out of limits or missing and as there is no subdivision dependent upon this fractional N.bdy., I pay no attention to this old line except to destroy such old cors. as I might find.

From the Tp.cor., already described, I run

East, bet.secs.6 and 31.

Gradual descent over rolling land, through scattering timber and dense undergrowth.

32.00 Enter heavy timber, bears NW. and SE.

33.60 Road between Piute Spring and Lisbon Valley, bears NW. and SE.

40.00 Set an iron post, 3 ft.long, 1 in.dia., 26 ins.in the ground, for re-established $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{2} S 31$ on N.half, S 6 on S.half, from which

A pinon, 7 ins.diam., bears S. $0^{\circ}25'W.$, 67 lks.dist., marked $\frac{1}{4} S 6$ BT.

A pinon, 8 ins.diam., bears N. $43^{\circ}32'W.$, 46 lks.dist., marked $\frac{1}{4} S 31$ BT.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec.cor., purported to have been set on the previous survey.

60.83 Begin abrupt descent over sandstone ledges, bearing NW. and SE.

64.00 Foot of ledges, 100 ft.high, bearing N. and S.
Descend over rocky land.

80.00 Set an iron post, 3 ft.long, 3 ins.dia., 24 ins.in the ground, for re-established cor.of secs.5-6-31 and 32, marked on brass cap, T 31 S S 31 in NW..

R 26 E S 32 in NE.,

R 26 E S 5 in SE.and

T 32 S S 6 in SW.quadrant, from which

NORTH BOUNDARY OF T.32 S., R.26 E.

CHAINS

A cedar, 20 ins. diam., bears N. $64^{\circ}50' E.$, 39 lks. dist., marked T 31 S R 26 E S 32 BT.

A pinon, 13 ins. diam., bears S. $56^{\circ}25' E.$, 50 lks. dist., marked T 32 S R 26 E S 5 BT.

A pinon, 15 ins. diam., bears S. $37^{\circ}05' W.$, 62 lks. dist., marked T 32 S R 26 E S 6 BT.

A pinon, 8 ins. diam., bears N. $32^{\circ}20' W.$, 39 lks. dist., marked T 31 S R 26 E S 31 BT.

After diligent search no trace can be found of the old cor. or secs. 5-6-31 and 32, purported to have been set on a previous survey.

Land, rolling and mountainous.

Soil, sandy loam, from 10 to 15 ins. deep, 1st rate on first 40.00 chs. balance, rocky and sandstone ledges, 3rd. and 4th. rate.

Subsoil, gravel, rock and sandstone.

Timber, cedar and pinon.

Undergrowth, sage brush.

Land, covered with dense undergrowth, heavily timbered land or mountainous land on 80.00 chs.

East, bet. secs. 5 and 32.

Descend over rocky land, through heavy timber.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 32 on N. half, S 5 on S. half, from which

A cedar, 8 ins. diam., bears S. $34^{\circ}55' W.$, 63 lks. dist., marked $\frac{1}{4}$ S 5 BT.

A cedar, 7 ins. diam., bears N. $6^{\circ}50' W.$, 64 lks. dist., marked $\frac{1}{4}$ S 32 BT.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor. purported to have been set on a previous survey, being the furthest east cor. set on this line on that survey.

40.70 Leave timber, bears N. and S.

NORTH BOUNDARY OF T.32 S., R.26 E.

CHAINS	
	Over level land in bottom of Little Indian Canyon, through dense undergrowth.
45.50	Wash of canyon, 25 lks. wide, 10 ft. deep, course NE.
50.50	Leave bottom of canyon, bears NE. and SW.
	Enter heavy timber, bears NE. and SW.
	Ascend over rocky land.
80.00	Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 4-5-32 and 33, marked on brass cap T 31 S S 32 in NW., R 26 E S 33 in NE., R 26 E S 4 in SE. and T 32 S S 5 in SW. quadrant, from which A pinon, 6 ins. diam., bears N. $22^{\circ}45'$ E., 55 lks. dist., marked T 31 S R 26 E S 33 BT. A pinon, 12 ins. diam., bears S. $69^{\circ}33'$ E., 61 lks. dist., marked T 32 S R 26 E S 4 BT. A pinon, 7 ins. diam., bears S. $51^{\circ}56'$ W., 46 lks. dist., marked T 32 S R 26 E S 5 BT. A pinon, 6 ins. diam., bears N. $31^{\circ}45'$ W., 53 lks. dist., marked T 31 S R 26 E S 32 BT.
	Land. rolling and level.
	Soil, rocky, 3rd. rate; subsoil, broken sandstone ledges.
	Timber, cedar and pinon.
	Undergrowth, sage brush.
	Heavily timbered land or land covered with dense undergrowth on 80.00 chs.
	November 7: At this cor. I set off $16^{\circ}06'$ S. on decl. arc, and at 11h. 44m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}04'$ N.
	East, bet. secs. 4 and 33.
	Ascend over broken sandstone ledges, through heavy timber.
8.70	Top of ledges, 100 ft. above the sec. cor., bearing NE. and SW.
	Gradual ascent over rolling land.
24.50	Leave timber, bears NE. and SW.

NORTH BOUNDARY OF T.32 S., R.26 E.

CHAINS

39.00

Enter dense undergrowth.

40.00

Enter heavy timber, bears NE. and SW.
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $\frac{1}{2}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 33 on N.
half, S 4 on S. half, from which

A cedar, 14 ins. diam., bears S. 40° E., 20 lks. dist.,
marked $\frac{1}{4}$ S 4 BT.

A cedar, 7 ins. diam., bears N. $30^{\circ}35'$ E., 42 lks. dist.,
marked $\frac{1}{4}$ S 33 BT.

80.00

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the
ground, for cor. of secs. 3-4-33 and 34, marked on brass cap,
T 31 S S 33 in NW.,

R 26 E S 34 in NE.,

R 26 E S 3 in SE. and

T 32 S S 4 in SW. quadrant, from which

A pinon, 6 ins. diam., bears N. $68^{\circ}15'$ E., 44 lks. dist.,
marked T 31 S R 26 E S 34 BT.

A pinon, 8 ins. diam., bears S. $48^{\circ}30'$ E., 22 lks.
dist., marked T 32 S R 26 E S 3 BT.

A pinon, 8 ins. diam., bears S. $85^{\circ}30'$ W., 28 lks.
dist., marked T 32 S R 26 E S 4 BT.

A pinon, 7 ins. diam., bears N. $12^{\circ}10'$ W., 34 lks.
dist., marked T 31 S R 26 E S 33 BT.

Land, mountainous and rolling.

Soil, broken sandstone ledges and rocky, 3rd. and 4th.

rate on first 24.00 chs., balance, sandy loam from
10 to 18 ins. deep, 1st. rate.

Subsoil, solid sandstone and gravel.

Timber, cedar and pinon.

Undergrowth, sage brush.

Mountainous land, heavily timbered land or land covered
with dense undergrowth on 80.00 chs.

November 7, 1911

November 9: At 7h. 44m., a.m., 1.m.t., I set off $38^{\circ}04'N$ on
lat. arc, $16^{\circ}37'S$. on decl. arc, and determine a meridian with
the solar at the cor. of secs. 3-4-33 and 34, heretofore

NORTH BOUNDARY OF T.32 S., R.26 E.

CHAINS

described. Thence I run

East, bet. secs. 3 and 34.

Gradual descent over rolling land, through heavy timber.

15.00

Leave timber, bears NE. and SW.

Enter dense undergrowth.

25.50

Enter heavy timber, bears NE. and SW.

40.00

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 3⁴ on N. half, S 3 on S. half, from whichA pinon, 6 ins. diam., bears S. 46°W., 12 lks. dist., marked $\frac{1}{4}$ S 3 BT.A cedar, 7 ins. diam., bears N. 72°W., 47 lks. dist., marked $\frac{1}{2}$ S 3⁴ BT.

55.88

Begin abrupt descent over sandstone ledges, bearing NE. and SW.

65.00

Hollow, 125 ft. deep, course NE.

Abrupt ascent over broken sandstone ledges.

80.00

Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 2-3-34 and 35, marked on brass cap, T 31 S S 3⁴ in NW.,R 26 E S 3⁵ in NE.,

R 26 E S 2 in SE. and

T 32 S S 3 in SW. quadrant, from which

A cedar, 8 ins. diam., bears N. 24°35'E., 32 lks. dist., marked T 31 S R 26 E S 3⁵ BT.

A cedar, 15 ins. diam., bears S. 60°30'E., 14 lks. dist., marked T 32 S R 26 E S 2 BT.

A pinon, 15 ins. diam., bears S. 31°40'W., 49 lks. dist., marked T 32 S R 26 E S 3 BT.

A pinon, 9 ins. diam., bears N. 40°05'W., 65 lks. dist., marked T 31 S R 26 E S 3⁴ BT.

Land, rolling and mountainous.

Soil, sandy loam, from 10 to 18 ins. deep, 1st. rate on first

45.00 chs. balance, rocky and broken ledges, 3rd. and 4th. rate.

Subsoil, gravel and solid sandstone.

NORTH BOUNDARY OF T.32 S., R.26 E.

Timber, cedar and pinon.

Undergrowth, sage brush.

Heavily timbered land, land covered with dense undergrowth or mountainous land on 80.00 chs.

East, bet. secs. 2 and 35.

Ascend abruptly over broken sandstone ledges, through heavy timber.

7.50 Top of ledges, 75 ft. above the sec.cor., bearing NE. and SW.

Gradual ascent over rocky land.

7.98 Intersect Utah-Colorado State Boundary line, at N. $0^{\circ}15' E.$, 67.32 chs. from the 71 Mile Cor., heretofore described. Set an iron post, 3 ft. long, 3 ins. dia., 24 ins. in the ground, for closing cor. of Tps. 31rd and 32S.R.26^E on brass cap, CC C on E.half, U on W.half,

T 31 S R 26 E S 35 in NW., and

T 32 S R 26 E S 2 in SW.quadrant, from which

A cedar, 17 ins. diam., bears S. $11^{\circ}W.$, 11 lks. dist., marked T 32 S R 26 E S 2 BT.

A cedar, 12 ins. diam., bears N. $40^{\circ}35' W.$, 27 lks. dist. marked T 31 S R 26 E S 35 BT.

Land, mountainous and rolling.

Soil, broken sandstone ledges and rocky, 3rd. and 4th. rate.

Subsoil, solid sandstone.

Timber, cedar and pinon.

Heavily timbered land or mountainous land on 7.98 chs.

November 9: At this cor. I set off $16^{\circ}42'S.$ on decl.arc, and at 11h. 44m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}04' N.$

November 9, 1911.

Eben B. Andrews
U.S. Transitman.

BOUNDARIES OF T.32 S., R.26 E.
Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
Utah-Colo. Bdy.		Chs.		Chs.	Chs.	Chs.
	S.0°15'W.	67.32		67.32		0.29
	S.0°03'W.	160.68		160.68		0.14
	South	80.33		80.33		
	S.0°20'E.	77.45		77.45	0.45	
	S.1°10'E.	83.26		83.24	1.69	
South Bdy.	S.1°00'E.	51.24		51.23	0.89	
	West	330.99				330.99
	North	520.33	520.33			
West Bdy.						
North Bdy.	East	327.98			327.98	
Convergency					0.39	
	TOTALS		520.33 520.25	520.25	331.40 331.42	331.42 331.40
	Error in lat. and dep.	0.08			0.07	0.02

For General Description, see Subdivisions of T.32 S.,
R.26 E.

Melvin J. Heist
Eben B. Andrews
U.S. Transitmen

BOOK A-393

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, _____, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of _____.

For certificate of assistants see book "Z" T. 32 S., R. 26 E.

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, John R. Anderson, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the day of , 1811, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of land described in the field notes of the survey of the tract or section, in the State of , which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for , and to the specific numbers described in the field notes, and that the foregoing are the original field notes of such survey.

For a full oath of truth see Book No. 22 v. p. 20 L.

J. R. Anderson.

Subscribed by me at , and sworn to before me this day of , 1811.

APPROVAL.

Office of the U. S. Surveyor General,

BOSTON CITY, MASS., March 15, 1812.

The foregoing field notes of the survey of the North Boundary of Township No. 32 South, Range No. 26 East of the Salt Lake Line and Territory, Utah,

executed by Eaton R. Anderson,

under his special instructions dated MAY 22, 1811, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

James B. Linnell
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N SO FTOWNSHIP NO. 32 SOUTH, RANGE NO. 26 EAST.Of the Salt Lake Base and Meridian,In the State of Utah

EXECUTED BY

Melvin D. Heist and Eben B. Andrews

In the capacity of Transitmen,
U.S. Surveyors, under instructions dated May 22, 1911,
issued by the United States Surveyor General to govern surveys included in
Group No. 12, which were approved by the Commissioner of the General Land
Office, June 17, 1911, pursuant to authority contained in the Act of
Congress dated March 3, 1887, 1911.

Survey commenced October 30, 1911Survey completed November 9, 1911

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INDEX DIAGRAM.

Township 32 South Range 26 East

6	11	3	20	4	33	6	47	7	1
10		21		32		46		46	
7	9	8	20	6	31	10	45	11	12
8		19		30		43		44	
15	7	17	18	16	29	14	42	16	13
6		18		28		40		41	
19	5	20	17	21	27	22	39	22	20
4		16		26		38		39	
20	4	20	15	23	25	27	37	24	22
3		14		24		36		36	
21	2	22	13	23	23	24	34	23	22

-1-

Subdivision of T. 32 S., R. 26 E.

Chains

Survey commenced October 30, 1911, and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the re-established cor. of secs. 5, 6, 31 and 32, heretofore described in approximate latitude $37^{\circ}59'N.$, longitude $109^{\circ}08'W.$ I set off $37^{\circ}59'N.$ on lat. arc; $13^{\circ}37'S.$ on decl. arc; and at 3h 44m p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the cor.

October 31: At 4h 51m a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7 a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the east, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h 44m a.m., l.m.t., I set off $37^{\circ}59'N.$ on lat. arc; $13^{\circ}51'S.$ on decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m., observations defines positions for meridians respectively about

Subdivision of T. 32 S., R. 26 E.

Chains

0'21" west and 0'16" east of the meridian established by Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h 30m a.m. is N.15°40'W., the angle thus determined gives the mag. decl. 15°40'E.

From the cor. already described, I run

N.0°01'E. bet. secs. 31 and 32.

Gradual ascent over rolling land, through dense under-growth.

27.00 Enter scattering timber, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 31 on W half, S 32 on E half; from which

A pinon, 6 ins.diam., bears N.11°W., 52

lks.dist., marked $\frac{1}{4}$ S 31 B T

A pinon, 7 ins.diam., bears S.98°30'E., 55

lks.dist., marked $\frac{1}{4}$ S 32 B T

80.00 Set an iron post, 3 ft. long, 2 ins.diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked on brass cap

T 32 S S 30 in NW

R 26 E S 29 in NE

S 32 in SE. and

S 31 in SW.quadrant; from which

A pinon, 7 ins.diam., bears N.31°15'E., 135

lks.dist., marked T 32 S R 26 E S 29 B T

A pinon, 8 ins.diam., bears S.10°E., 84

lks.dist., marked T 32 S R 26 E S 32 B T

A pinon, 5 ins.diam., bears S.89°57'W., 175

lks.dist., marked T 32 S R 26 E S 31 B T.

A pinon, 5 ins.diam., bears N.54°30'W., 179

lks.dist., marked T 32 S R 26 E S 30 B T

Land, rolling.

Soil, rocky loam, from 15 to 20 ins. deep, 2nd rate,

Subdivision of T. 32 S., R. 26 E.

Chains	
	with gravel subsoil. sec. 29. bears N. $10^{\circ}0.3'$ E. 80.04 chs. Land, covered with dense undergrowth on 80.04 chs.
40.00	Timber, scattering pinon and cedar. sec. 30. bears N. $10^{\circ}0.3'$ E. Undergrowth, dense sagebrush. sec. 31. bears N. $10^{\circ}0.3'$ E. Land, covered with dense undergrowth on 80.04 chs. 80.04 chs. Thence I run
80.04	Set temp. $\frac{1}{4}$ sec. cor. West on random line bet. secs. 30 and 31. Intersect W. bdy. of Tp. 5 lks. N. of the re-established cor. of secs. 25, 30, 31 and 36, heretofore described. Thence I run
4.00	N. $89^{\circ}58' E.$ on true line bet. secs. 30 and 31. Enter scattering timber, bears N. and S.
40.02	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 30 on N. half, S 31 on S half; from which
	A pinon, 6 ins. diam., bears N. $35^{\circ}30' W.$, 116 lks. dist., marked $\frac{1}{4}$ S 30 B T
	A cedar, 6 ins. diam., bears S. $34^{\circ}15' W.$, 95 lks. dist., marked $\frac{1}{4}$ S 31 B T
44.10	Wash, 10 lks. wide, 4 ft. deep, course SW.
80.04	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling.
	Soil, rocky loam, 10 to 15 ins. deep, 3rd rate with gravel and rocky subsoil.
	Timber, scattering pinon and cedar.
	Undergrowth, dense sagebrush.
	Land, covered with dense undergrowth on 80.04 chs.
	October 31: At this cor. I set off $13^{\circ}55'S.$ on decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}00' N.$

Subdivision of T. 32 S., R. 26 E.

Chains	
	N.0°01'E. bet. secs. 29 and 30. the NW quadrant
	Gradual ascent over rolling land, through dense undergrowth and scattering timber.
23.08	Leave scattering timber, bears NE. and SW.
25.60	Wash, 8 lks. wide, 3 ft. deep, course SW.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{2}$ S 30 on W half S 29 on E half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
65.75	Enter scattering timber, bears E. and W.
67.00	Leave scattering timber, bears NE. and SW.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked on brass cap $\frac{1}{2}$ S 30 on E half S 29 on W half; dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, rolling.
	Soil, rocky loam, from 15 to 20 ins. deep, 3rd rate, with gravel and rock subsoil.
	Timber, scattering cedar and pinon.
	Undergrowth, dense sagebrush.
	Land, covered with dense undergrowth on 80.00 chs.
	S.89°58'W. on a random line bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec. cor. on new side of 24 ins. mds.
80.02	Intersect W. bdy. of Tp. 14 lks. S. of the re-established cor. of secs. 19, 24, 25 and 30, heretofore described, Thence I run
	S.89°56'E. on a true line bet. secs. 19 and 30.

Subdivision of T. 32 S., R. 26 E.

Chains	Gradual ascent over rolling land, through dense under-growth.
39.00	Wash, 10 lks, wide, 4 ft. deep, course SW.
40.01	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 19 on N half, S 30 on S half, dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
70.50	Enter scattering timber, bears NE. and SW.
76.10	Leave scattering timber, bears NE. and SW.
80.02	The cor. of secs. 19, 20, 29 and 30. Land, rolling. Soil, rocky loam, from 10 to 18 ins. deep, 3rd rate, with gravel and rock subsoil. Timber, cedar and pinon. Undergrowth, dense sagebrush. Land covered with dense undergrowth on 80.02 chs.
	October 31, 1911.

November 1: At 7h 44m a.m., l.m.t., I set off $38^{\circ}01'N.$ on lat. arc; $14^{\circ}10'S.$ on decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.

Thence I run N. $0^{\circ}01'E.$ bet. secs. 19 and 20.
Gradual ascent over rolling land, through dense under-growth.
Enter scattering timber, bears NE. and SW.
Leave scattering timber, bears NE. and SW.
Enter scattering timber, bears NE. and SW.
Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 19 on W half and S 20 on E half; from which

Subdivision of T. 32 S., R. 26 E.

Chains	A pinon, 10 ins. diam., bears N.14°35'E., 9 lks. dist., marked $\frac{1}{4}$ S 20 B T
	A pinon, 8. ins.diam., bears N.48°45'W., 44 lks. dist., marked $\frac{1}{4}$ S 19 B T
48.50	Leave scattering timber, bears NW. and SE.
80.00	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20; marked on brass cap. see to
	T 32 S S 18 in NW quadrant; dig pits 18x18x12 ins.. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling.
	Soil, rocky loam, from 18 to 20 ins. deep, 2nd rate, on first 48.50 chs.; balance sandy loam, from 20 to 24 ins. deep, 1st rate; all has a gravel subsoil.
	Timber, scattering pinon and cedar.
	Undergrowth, dense sagebrush.
	Land covered with dense undergrowth on 80.00 chs.
	N.89°56'W. on a true line bet. secs. 18 and 19.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect W. bdy. of Tp. 8 lks. S. of the re-established cor. of secs. 13, 18, 19 and 24, heretofore described Thence I run S.89°53'E. on a true line bet. secs. 18 and 19.
	Gradual ascent over rolling land, through dense undergrowth and scattering timber.
26.58	Leave scattering timber, bears NW. and SE.
39.95	Set an iron post, 3 ft. long, 1.in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 18 on N half, S 19 on S half; from which

Subdivision of T. 32 S., R. 26 E.

Chains	<p>A lone pinon, 10 ins. diam., bears S.87°10'N., 189 lks. dist., marked $\frac{1}{2}$ S 19 B T.</p> <p>Dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.</p> <p>Enter scattering timber, bears NW. and SE..</p> <p>Leave scattering timber, bears NE. and SW..</p> <p>Enter scattering timber, bears NW. and SE..</p> <p>The cor. of secs. 17, 18, 19 and 20.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, from 20 to 24 ins. deep, 2nd rate, with gravel subsoil.</p> <p>Timber, scattering pinon and cedar.</p> <p>Undergrowth, dense sagebrush.</p> <p>Land, covered with dense undergrowth on 79.90 chs.</p> <p>November 1: At this cor. I set off 14°15'S. on decl. arc, and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°02'N.</p>
	<p>N.0°01'E. bet. secs. 17 and 18.</p> <p>Gradual ascent over rolling land, through dense undergrowth and scattering timber.</p>
17.50	Leave scattering timber, bears E. and W..
35.90	Enter scattering timber, bears E. and W..
40.00	<p>Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{2}$ S 18 on W. half, S 17 on E. half; from which</p> <p>A pinon, 6 ins. diam., bears N.37°25'E., 45 lks. dist., marked $\frac{1}{2}$ S 17 B T.</p> <p>A cedar, 9 ins. diam., bears N.52°W., 21 lks. dist., marked $\frac{1}{2}$ S 18 B T</p>
42.15	Leave scattering timber, bears NW. and SE..
80.00	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked on brass cap

Subdivision of T. 32 S., R. 26 E.

Chains	
	1000 ft. sec. 7. R 26 E. S 8 in NE. quadrant; S 17 in SE. and S 18 in SW. quadrant; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high N. of cor. 100.00
	Land, rolling. 100.00
	Soil, sandy loam from 20 to 24 ins. 1st. rate, with gravel subsoil. 100.00
	Timber, scattering pinon and cedar. 100.00
	Undergrowth, dense sagebrush. 100.00
	Land, covered with dense undergrowth on 80.00 chs. 100.00
	100.00
40.00	N. 89° 53' W. on a random line bet. secs. 7 and 18. Set temp. $\frac{1}{4}$ sec. cor. 100.00
79.96	Intersect W. bdy. of Tp. 12 lks. N. of the re-established cor. of secs. 7, 12, 13 and 18, heretofore described. 100.00
	Thence I run S. 89° 58' E. on a true line bet. secs. 7 and 18. 100.00
	Gradual ascent over rolling land, through dense undergrowth and scattering timber. 100.00
6.73	Leave scattering timber, bears NE. and SW. 100.00
39.98	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 7 on N half S 18 on S half, dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor. 100.00
43.60	Wash, 8 lks. wide, 3 ft. deep, coarse SW. 100.00
79.96	The cor. of secs. 7, 8, 17 and 18. 100.00
	Land, rolling. 100.00
	Soil, sandy loam, from 20 to 24 ins. deep, 1st rate, with gravel and clay subsoil. 100.00
	Timber, scattering pinon and cedar. 100.00
	Undergrowth, dense sagebrush. 100.00
	Land, covered with dense undergrowth on 79.96 chs. 100.00

Subdivision of T. 32 S., R. 26 E.

Chains

November 1, 1911.

Michael J. Keist

U. S. Transitman.

November 4, 1911:

N. 0° 01'E. bet. secs. 7 and 8.

Gradual ascent over rolling land, through dense under-growth.

- 19.70 Enter heavy timber, bears NE. and SW.
- 22.50 Leave timber, bears NE. and SW.
- 35.00 Enter heavy timber, bears E. and W.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{2}$ S 7 on W half, S 8 on E half; from which
A pinon, 6 ins. diam., bears N. 66° 35' W., 48 lks. dist., marked $\frac{1}{2}$ S 7 B T
A pinon, 13 ins. diam., bears S. 88° E., 214 lks. dist., marked $\frac{1}{2}$ S 8 B T
- 50.10 Road, between Piute Spring and Lisbon Valley, bears NW. and SE.
- 60.00 Leave heavy timber, bears NE. and SW.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked on brass cap
T 32 S S 6 in NW
R 26 E S 5 in NE
S 8 in SE. and
S 7 in SW. quadrant; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, rolling.
Soil, rocky loam, from 15 to 20 ins. deep, 2nd rate, with gravel and rock subsoil.
Timber, pinon and cedar.

Subdivision of T. 32 S., R. 26 E.

Chains

Undergrowth, dense sagebrush.

Land covered with dense undergrowth or heavily timbered land on 80.00 chs.

November 4, 1911.

November 6, 1911:

N. $89^{\circ}58'W.$ on a random line bet. secs. 6 and 7.

and the two groups of soldiers were joined together.

Set temp. $\frac{1}{4}$ sec. cor.

22 22

Intersect the W. bdy. of Tp. 3 lks. N. of the re-established cor. of secs. 1, 6, 7 and 12, heretofore described.

Thence I run

S. 89° 59' E. on a true line bet. secs. 6 and 7.

Gradual descent over rolling land, through dense under-growth and scattering timber.

35.40

Leave scattering timber, bears N. and S.

40-00

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 6 on N half, S 7 on S half; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

44.00

Enter heavy timber, bears N. and S.

65.35

Road, between Piute Spring and Lisbon Valley, bears
NW. and SE.

75.00

Leave heavy timber, bears NW. and SE.

80.00

The cor. of secs. 5, 6, 7 and 8.

Land, rolling.

Soil, sandy loam, from 20 to 24 ins. deep, 1st rate, with gravel subsoil.

Timber, pinon and cedar.

Undergrowth, dense sagebrush.

Land covered with dense undergrowth or heavily timbered land on 80.00 chs.

November 6, 1911.

Subdivision of T. 32 S., R. 26 E.

Chains	
	November 7: For solar and lat. observations see pages 1 and 5 respectively of survey of N. bdy. of T. 32 S., R. 26 E., book Z. N. $^{\circ}$ 01'E. on a random line bet. secs. 5 and 6.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
120.34	Intersect the N. bdy. of Tp. 18 lks. E. of the cor. of secs. 5, 6, 31 and 32, heretofore described. Thence I run S. $^{\circ}$ 04'E. on a true line bet. secs. 5 and 6. Abrupt ascent through heavy timber.
10.65	Top of sandstone ledges, 50 ft. high, bears E. and W. Gradual descent over rolling land.
80.34	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S. 6 on W. half, S. 5 on E half; from which A pinon, 7 ins. diam., bears S. $85^{\circ}15'E.$, 20 lks. dist., marked $\frac{1}{4}$ S. 5 B T A cedar, 12 ins. diam., bears S. $57^{\circ}10'W.$, 26 lks. dist., marked $\frac{1}{4}$ S. 6 B T
87.00	Leave timber, bears NW. and SE.
120.34	The cor. of secs. 5, 6, 7 and 8. Land, rolling and mountainous. Soil, broken sandstone ledges, 4th rate, on first 10.65 chs.; rocky loam on next 76.35 chs. 2nd rate, with solid sandstone subsoil; balance, sandy loam, 1st rate, with gravel subsoil. Timber, pinon and cedar. Undergrowth, dense sage and oak brush. Land covered with dense undergrowth or heavily timbered land on 120.34 chs.

November 7, 1911.

Subdivision of T. 32 S., R. 26 E.

Chains

Survey commenced October 31, 1911, and executed with the instrument described in book "D" of this survey.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris. I proceed as follows:

At the re-established cor. of secs. 4, 5, 32 and 33, heretofore described on the S. bdy. of the Tp. in approximate latitude $37^{\circ}59'N.$, longitude $109^{\circ}07'W.$, I set off $37^{\circ}59'N.$ on lat. arc; $13^{\circ}57'S.$ on decl. arc; and at 3h 44m p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground 5 chs. N. of cor.

October 31, 1911.

November 1: At 4h 47m a.m., l.m.t., I observe Polaris at western elongation in accordance with Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station.

At 7h a.m., I lay off the azimuth of Polaris $1^{\circ}29'$ to the east and mark the meridian thus determined by cutting a small groove in the stone set last evening on which the meridian falls 0.2 ins. east of the mark determined by the solar observation.

At 7h 44m a.m., l.m.t., I set off $37^{\circ}59'N.$ on lat. arc; $14^{\circ}10'S.$ on decl. arc; and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.2 ins. east of meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations de-

Subdivision of T. 32 S., R. 26 E.

Chains	fines positions for meridians respectively about $0' 10''$ west and $0' 10''$ east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 8h 30m is N. $15^{\circ}40'W.$, the angle thus determined gives the mag. decl. $15^{\circ}40'E.$
	From the sec. cor. already described, I run N. $0^{\circ}01'E.$ bet. secs. 32 and 33. Gradual ascent over rolling land, through scattering timber and dense undergrowth.
34.00	Leave timber.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4} S 32$ on W half, S 33 on E half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked on brass cap
	T 32 S S 29 in NW R 26 E S 28 in NE S 33 in SE. and S 32 in SW.quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, rolling.
	Soil, rocky loam, 12 ins. deep, 2nd rate; subsoil gravel.
	Timber, scattering cedar and pinon.
	Land covered with dense undergrowth on 80.00 chs.
	November 1: At this cor. I set off $14^{\circ}15'S.$ on decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}00'N.$

Subdivision of T. 32 S., R. 26 E.

Chains	
40.00	West on a random line bet. secs. 29 and 32. rise Set temp. $\frac{1}{4}$ sec. cor. This section has front "W"
79.98	Intersect N. and S. line 19 lks. S. of the cor. of secs. 29, 30, 31 and 32. Then turn right and go back
	Thence I run on line and go up hill, following S. $89^{\circ}52'E.$ on a true line bet. secs. 29 and 32.
	Gradual descent over rolling land through scattering timber and dense undergrowth.
39.99	Set an iron post, 3 ft. long, plain dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 29 on N, S 32 on S half; from which
	A cedar, 6 ins. diam., bears S. $71^{\circ}20'W.$, 177 lks.dist., marked $\frac{1}{4}$ S 32 B T
	A cedar, 7 ins. diam., bears N. $48^{\circ}10'W.$, 108 lks.dist., marked $\frac{1}{4}$ S 29 B T
45.00	Leave timber.
57.00	Enter scattering timber.
61.25	Leave timber.
75.41	Road between Piute Spring and Lisbon Valley, bears NW. and SE.
79.98	The cor. of secs. 28, 29, 32 and 33.
	Land, rolling.
	Soil, rocky loam, 12 ins. deep, 2nd rate; subsoil, gravel.
	Timber, scattering cedar and pinon.
	Undergrowth, sagebrush.
	Land, covered with dense undergrowth on 79.98 chs.

November 1, 1911.

At 7h 44m a.m., l.m.t., I set off $38^{\circ}00'N.$
on lat. arc; $14^{\circ}29'S.$ on decl. arc; and determine a
meridian with the solar at the cor. of secs. 28, 29, 32
and 33.

Subdivision of T. 32 S., R. 26 E.

Chains	
	Thence I run N.0°01'E. bet. secs. 28 and 29. Gradual ascent over rolling land, through dense under-growth.
26.40	Enter scattering timber.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 29 on W half, S 28 on E half; from which A pinon, 10 ins.diam., bears N.53°33'W., 153 lks.dist., marked $\frac{1}{4}$ S 29 B T No other trees within limits and dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
72.90	Wash, 10 lks. wide, 5 ft. deep, course SW.
75.70	Enter heavy timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked on brass cap T 32 S S 20 in NW R 26 E S 21 in NE S 28 in SE. and S 29 in SW.quadrant; from which A pinon, 6 ins.diam., bears N.44°50'E., 35 lks. dist., marked T 32 S R 26 E S 21 B T A pinon, 17 ins.diam., bears S.19°50'E., 47 lks. dist., marked T 32 S R 26 E S 28 B T A pinon, 8 ins.diam., bears S.73°W., 38 lks. dist., marked T 32 S R 26 E S 29 B T A pinon, 8 ins.diam., bears N.46°10'W., 13 lks. dist., marked T 32 S R 26 E S 20 B T Land, rolling. Soil, sandy loam, 1st rate from 12 to 18 ins. deep; sub-soil, gravel and rock. Timber, cedar and pinon. Undergrowth, sagebrush.

Subdivision of T. 32 S., R. 26 E.

Chains

Land, covered with dense undergrowth or heavily timbered on 80.00 chs.

- N. $89^{\circ}52'W.$ on a random line bet. secs. 20 and 29.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line 14 lks. N. of the cor. of secs. 19, 20, 29 and 30.
Thence I run
S. $89^{\circ}58'E.$ on a true line bet. secs. 20 and 29.
Gradual ascent over rolling land, through dense undergrowth.
13.76 Enter scattering timber.
27.86 Leave timber.
37.21 Enter scattering timber.
39.98 Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 20 on N half, S 29 on S half; from which
A cedar, 7 ins.diam., bears N. $50^{\circ}45'W.$, 42 lks.dist., marked $\frac{1}{4}$ S 20 B T
A pinon, 7 ins.diam., bears S. $0^{\circ}06'E.$, 25 lks.dist., marked $\frac{1}{4}$ S 29 B T
40.16 Leave timber.
48.36 Enter scattering timber.
57.50 Road between Pjute Spring and Lisbon Valley, bears NW. and SE.
69.10 Wash, 8 lks. wide, 4 ft. deep, course SW.
Enter heavy timber, bears N. and S.
79.96 The cor. of secs. 20, 21, 28 and 29.
Land, rolling.
Soil, sandy loam, from 12 to 18 ins. deep, 1st rate.
Subsoil, gravel and rock.
Timber, cedar and pinon.
Undergrowth, sagebrush.
Land, covered with dense undergrowth or heavily timbered on 79.96 chs.

Subdivision of T. 32 S., R. 26 E.

Chains	
	November 2: At this cor. I set off $14^{\circ}34' S.$ on decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}01' N.$
	N. $0^{\circ}01'E.$ bet. secs. 20 and 21.
	Gradual ascent over rolling land, through heavy timber.
9.10	Leave timber, bears NE. and SW.
	Enter dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{2} S 20$ on W half, S 21 on E half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
69.15	Enter heavy timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked on brass cap
	T 32 S S 17 in NW
	R 26 E S 16 in NE
	S 21 in SE. and
	S 20 in SW.quadrant; from which
	A cedar, 22 ins.diam., bears N. $72^{\circ}10'E.$, 42 lks.dist., marked T 32 S R 26 E S 16 B T
	A cedar, 8 ins.diam., bears S. $61^{\circ}10'E.$, 41 lks.dist., marked T 32 S R 26 E S 21 B T
	A pinon, 12 ins.diam., bears S. $73^{\circ}40'W.$, 81 lks.dist., marked T 32 S R 26 E S 20 B T
	A pinon, 9 ins.diam., bears N. $48^{\circ}25'W.$, 5 lks.dist., marked T 32 S R 26 E S 17 B T
	Land, rolling.
	Soil, sandy loam, 1st rate, from 12 to 18 ins. deep; subsoil, gravel and rock.
	Timber, cedar and pinon.
	Undergrowth, sagebrush..
	Land covered with dense undergrowth or heavily timbered land on 80.00 chs.

Subdivision of T. 32 S., R. 26 E.

Chains	
	N. $89^{\circ}58'W.$ on a random line bet. secs. 17 and 20
40.00	Set temp. $\frac{1}{4}$ sec. cor... .
79.98	Intersect N. and S. line 3 lks. S. of the cor. of secs. 17, 18, 19 and 20.
	Thence I run
	S. $89^{\circ}57'E.$ on a true line bet. secs. 17 and 20.
	Gradual ascent over rolling land, through dense undergrowth.
39.99	Set an iron post, 3 ft. long, 1 in.diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.; marked on brass cap $\frac{1}{4}$ S 17 on N half, S 20 on S half; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
41.50	Road between Piute Spring and Lisbon Valley, bears NW. and SE.
72.50	Enter heavy timber, bears NE. and SW.
79.98	The cor. of secs. 16, 17, 20 and 21.
	Land, rolling.
	Soil, sandy loam, from 20 to 24 ins. deep, 1st rate; subsoil, gravel and clay.
	Timber, cedar and pinon.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth or heavily timbered land on 79.98 chs.
	November 2 1911.

November 4, 1911:

N. $0^{\circ}01'E.$ bet. secs. 16 and 17.

Gradual ascent over rolling land, through heavy timber.

2.00 Leave timber, bears E. and W.

Enter dense undergrowth.

36.10 Enter heavy timber, bears E. and W.

40.00 Set an iron post 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 17 on

Subdivision of T. 32 S., R. 26 E.

Chains

W half S 16 on E half; from which

A cedar, 6 ins. diam., bears N. $27^{\circ}10' E.$, 134 lks. dist., marked $\frac{1}{4}$ S 16 B T

A pinon, 9 ins. diam., bears S. $80^{\circ}25' W.$, 168 lks. dist., marked $\frac{1}{2}$ S 17 B T

60.65 Leave timber, bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked on brass cap

T 32 S S 8 in NW

R 26 E S 9 in NE

S 16 in SE. and

S 17 in SW quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, rolling.

Soil, sandy loam, from 20 to 24 ins. deep, 1st rate.

Subsoil, gravel and clay.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or heavily timbered land on 80.00 chs.

November 4: At this cor. I set off $15^{\circ}12'S.$ on decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}03'N.$

N. $89^{\circ}57'W.$ on a random line bet. secs. 8 and 17.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

80.00 Intersect N. and S. line 5 lks. N. of the cor. of secs. 7, 8, 17 and 18.

Thence I run

S. $89^{\circ}59'E.$ on a true line bet. secs. 8 and 17.

Gradual ascent over rolling land, through dense undergrowth.

10.70 Enter heavy timber, bears NE. and SW.

Subdivision of T. 32 S., R. 23 E.

Chains	
19.20	Leave timber, bears NE. and SW.
23.27	Road; between Piute Spring and Lisbon Valley, bears NW. and SE.
37.50	Enter heavy timber, bears N. and S.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 8 on N half; S 17 on S half; from which A cedar, 16 ins.diam., bears N. $22^{\circ}35'W.$, 110 lks.dist., marked $\frac{1}{4}$ S 8 B T A pinon, 6 ins.diam., bears S. $21^{\circ}30'W.$, 63 lks.dist., marked $\frac{1}{4}$ S 17 B T
71.00	Leave timber, bears N. and S.
80.00	The cor. of secs. 8, 9, 16 and 17. Land, rolling. Soil, sandy loam from 15 to 20 ins. deep, 1st rate; subsoil, gravel and clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or heavily timbered land on 80.00 chs.
	November 4, 1911.

November 6, 1911:

N. $0^{\circ}01'E.$ bet. secs. 8 and 9.

Gradual ascent over rolling land, through dense undergrowth.

36.50	Enter scattering timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 8 on W half, S 9 on E half; from which A cedar, 7 ins.diam., bears N. $31^{\circ}50'E.$, 38 lks.dist., marked $\frac{1}{4}$ S 9 B T A pinon, 14 ins.diam., bear S. $55^{\circ}30'W.$, 175 lks.dist., marked $\frac{1}{4}$ S 8 B T
48.00	Leave scattering timber, bears NE. and SW.

Subdivision of T. 32 S., R. 26 E.

Chains	
80.00	Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked on brass cap T 32 S S 5 in NW. R 26 E S 4 in NE S 9 in SE. and S 8 in SW.quadrant; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor. Land, rolling. Soil, sandy loam, from 15 to 20 ins. deep, 1st rate, with gravel and rock subsoil. Timber, scattering pinon and cedar. Undergrowth, dense sagebrush. Land covered with dense undergrowth on 80.00 chs. November 6: At this cor. I set off 15°48'S. on decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°03'N.
40.00	N.89°59'W. on a random line bet. secs. 5 and 8. Set temp. $\frac{1}{2}$ sec. cor.
79.96	Intersect the cor. of secs. 5, 6, 7 and 8. Thence I run S.89°59'E. on a true line bet. secs. 5 and 8. Gradual descent over rolling land, through dense undergrowth.
8.00	Enter heavy timber, bears NW. and SE.
39.98	Set an iron post, 3 ft. long, 1 in.dia., 26 ins.in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 5 on N half, S 8 on S half; from which A pinon, 8 ins.diam., bears N.44°20'E., 25 lks.dist., marked $\frac{1}{4}$ S 5 B T A pinon, 14 ins.diam., bears S.34°25'W., 39 lks.dist., marked $\frac{1}{4}$ S 8 B T
50.30	Leave heavy timber, bears N. and S.

Subdivision of T. 32 S., R. 26 E.

Chains	
71.00	Enter heavy timber, bears NE. and SW.
74.90	Leave timber, bears N. and S.
79.96	The cor. of secs. 4, 5, 8 and 9. Land, rolling. Soil, sandy loam, from 15 to 20 ins. deep, 1st rate, with gravel and rock subsoil. Timber, pinon and cedar. Undergrowth, dense sagebrush.
	Land covered with dense undergrowth or heavily timbered land on 79.96 chs.

November 6, 1911.

Owen B Andrews
U.S. Transitman.

40.00	November 7, 1911: I run a line N. 0°01'E. on a random line bet. secs. 4 and 5. Set temp. $\frac{1}{4}$ sec. cor.
120.26	Intersect N. bdy. of Tp. 7 lks. E. of the cor. of secs. 4, 5, 32 and 33, heretofore described. Thence I run
6.20	S. 0°01'E. on a true line bet. secs. 4 and 5. Abrupt ascent through heavy timber. Top of sandstone ledges, 75 ft. above sec. cor., bears NE. and SW.
42.05	Gradual descent over rolling land, through heavy timber. Wash, 30 lks. wide, 2 ft. deep, course SW.
58.62	Leave heavy timber, bears NE. and SW. Enter dense undergrowth.
63.10	Enter scattering timber, bears NE. and SW.
66.35	Wash, 15 lks. wide, 2 ft. deep, course SW.
80.26	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 5 on W half, S 4 on E half; from which A cedar, 13 ins. diam., bears S. 6°07'E., 24 lks. dist., marked $\frac{1}{4}$ S 4 B T

Subdivision of T. 32 S., R. 26 E.

Chains	
	A pinon, 10 ins. diam., bears S. $1^{\circ}00'W.$, 23 lks. dist., marked $\frac{1}{4}$ S 5 B T
108.18	Wash, 20 lks. wide, 8 ft. deep, course NW.
120.26	The cor. of secs. 4, 5, 8 and 9. Land, rolling and mountainous. Soil, rocky, 3rd and 4th rate on first 75.00 chs.; balance sandy loam, from 10 to 15 ins. deep, 1st rate. Subsoil, rocky, gravel and solid sandstone. Timber, cedar and pinon. Undergrowth, sagebrush. Mountainous land, land covered with dense undergrowth or heavily timbered land on 120.26 chs.
	November 7: At this cor. I set off $16^{\circ}06'S.$ on decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}03'N.$
	November 7, 1911.
	<i>Merlin H. Heist</i> U. S. Transitman.

	November 3: At 7h 44m a.m., l.m.t., I set off $37^{\circ}59'N.$ on lat. arc; $14^{\circ}48'S.$ on decl. arc; and determine a meridian with the solar at the re-established cor. of secs. 3, 4, 33 and 34, heretofore described on the S. bdy. of the Tp.
	Thence I run $N.0^{\circ}02'E.$ bet. secs. 33 and 34.
	Gradual ascent over rolling and rocky land, through heavy timber.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 33 on W half, S 34 on E half; from which A pinon, 8 ins. diam., bears N. $69^{\circ}W.$, 86 lks. dist., marked $\frac{1}{4}$ S 33 B T A pinon, 10 ins. diam., bears S. $76^{\circ}50'E.$, 46 lks. dist., marked $\frac{1}{4}$ S 34 B T

Subdivision of T. 32 S., R. 26 E.

Chains	
40.75	Begin abrupt descent over sandstone ledges, bearing NW. and SE.
46.50	Ravine, 150 ft. deep, course E.
51.75	Begin abrupt ascent over sandstone ledges.
52.00	Top of ledges, bearing E. and W.
52.50	Gradual ascent over rolling land.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked on brass cap T 32 S S 28 in NW R 26 E S 27 in NE S 34 in SE. and S 33 in SW.quadrant; from which A cedar, 12 ins. dia., bears N. $81^{\circ}30'E.$, 8 lks. dist., marked T 32 S R 26 E S 27 B T A cedar, 14 ins. diam., bears S. $22^{\circ}25'E.$, 26 lks. dist., marked T 32 S R 26 E S 34 B T A cedar, 7 ins. diam., bears S. $49^{\circ}40'W.$, 53 lks. dist., marked T 32 S R 26 E S 33 B T A cedar, 20 ins. diam., bears N. $53^{\circ}30'W.$, 48 lks. dist., marked T 32 S R 26 E S 28 B T Land, rolling and mountainous. Soil, rocky or sandstone ledges, 3rd and 4th rate. Subsoil, rocky and solid sandstone. Timber, cedar and pinon. Heavily timbered land or mountainous land on 80.00 chs.
40.00	West on a random line bet. secs. 28 and 33.
80.10	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line 7 lks. S. of the cor. of secs. 28, 29, 32 and 33.
	Thence I run S. $89^{\circ}57'E.$ on a true line bet. secs. 28 and 33.
	Gradual descent over rolling land, through dense under-growth.
31.00	Wash, 15 lks. wide, 5 ft. deep, course SE.

Subdivision of T. 32 S., R. 26 E.

Chains	
40.05	<p>Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 28 on N half, S 33 on S half; from which</p> <p>A cedar, 8 ins.diam., bears S.66°30'E., 68 lks.dist., marked $\frac{1}{4}$ S 33 B T</p> <p>A cedar, 11 ins.diam., bears N.13°05'E., 166 lks.dist., marked $\frac{1}{4}$ S 28 B T</p>
40.25	<p>Enter heavy timber, bears N. and S.</p>
80.10	<p>The cor. of secs. 27, 28, 33 and 34.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, 1st rate, from 12 to 18 ins. deep, on first 37.00 chs.; balance rocky, 3rd rate.</p> <p>Subsoil, gravel and rock.</p> <p>Timber, cedar and pinon.</p> <p>Undergrowth, sagebrush.</p> <p>Land, covered with dense undergrowth or heavily timbered land on 80.10 chs.</p>
	<p>November 3: At this cor. I set off 14°53'S. on decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°00'N.</p>
40.00	<p>N.0°02'E. bet. secs. 27 and 28.</p> <p>Gradual ascent over rolling land, through heavy timber.</p> <p>Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 28 on W half, S 27 on E half; from which</p> <p>A pinon, 7 ins.diam., bears S.87°30'W., 23 lks. dist., marked $\frac{1}{4}$ S 28 B T</p> <p>A cedar, 12 ins.diam., bears S.88°35'E., 34 lks. dist., marked $\frac{1}{4}$ S 27 B T</p>
80.00	<p>Set an iron post, 3 ft.long, 2 ins.dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap</p> <p>T 32 S S 21 in NW</p> <p>R 26 E S 22 in NE</p>

Subdivisions of T. 32 S., R. 26 E.

Chains	<p>S 27 in SE. and S 28 in SW. quadrants; from which</p> <p>A cedar, 9 ins. diam., bears N.$4^{\circ}30' E.$, 206 lks. dist., marked T 32 S R 26 E S 22 B T</p> <p>A cedar, 5 ins. diam., bears S.$8^{\circ} E.$, 61 lks. dist., marked T 32 S R 26 E S 27 B T</p> <p>A pinon, 15 ins. diam., bears S.$71^{\circ}25' W.$, 162 lks. dist., marked T 32 S R 26 E S 28 B T</p> <p>A pinon, 14 ins. diam., bears N.$80^{\circ}20' W.$, 183 lks. dist., marked T 32 S R 26 E S 21 B T</p> <p>Land, rolling.</p> <p>Soil, rocky loam, 2nd rate; subsoil, gravel and rock.</p> <p>Timber, cedar and pinon.</p> <p>Heavily timbered land on 80.00 chs.</p>
40.00	N. $89^{\circ}57' W.$ on a random line bet. secs. 21 and 28.
80.14	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line 3 lks. S. of the cor. of secs. 20, 21, 28 and 29.
3.50	Thence I run
	S. $89^{\circ}56' E.$ on a true line bet. secs. 21 and 28.
7.36	Gradual descent over rolling land, through heavy timber.
12.00	Leave timber, bears N. and S.
40.07	Enter dense undergrowth.
50.00	Wash, 10 lks. wide, 5 ft. deep, course SW.
	Enter scattering timber.
	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 21 on N half; S 28 on S half; from which
	A pinon, 6 ins. diam., bears S. $69^{\circ}30' W.$, 72 lks. dist., marked $\frac{1}{4}$ S 28 B T
	A cedar, 5 ins. diam., bears N. $39^{\circ}25' W.$, 114 lks. dist., marked $\frac{1}{4}$ S 21 B T
	Leave timber.

Subdivision of T. 32 S., R. 26 E.

Chains	
'56.00	Wash, 25 lks. wide, 8 ft. deep, course SW.
77.50	Enter heavy timber, bears N. and S.
80.14	The cor. of secs. 21, 22, 27 and 28. Land, rolling. Soil, sandy loam, from 12 to 18 ins. deep, 1st rate. Subsoil, gravel and rock. Timber, cedar and pinon. Land covered with dense undergrowth or heavily timbered land on 80.14 chs.
	November 3, 1911.

November 4: At 7h 44m a.m., l.m.t., I set off $38^{\circ}01'N.$
on lat. arc; $15^{\circ}07'S.$ on decl. arc; and determine a
meridian with the solar at the cor. of secs. 21, 22,
27 and 28.

Thence I run

N. $0^{\circ}02'E.$ bet. secs. 21 and 22.

Gradual ascent over rolling land, through heavy timber.

6.20	Leave timber, bears NE. and SW.
	Enter dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}S$ 21 on W half, S 22 on E half; dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
44.50	Enter heavy timber, bears E. and W.
49.00	Leave timber, bears E. and W.
66.50	Enter heavy timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked on brass cap

T. 32 S S 16 in NW quadrant.

R 26 E S 15 in NE

S 22 in SE. and

S 21 in SW. quadrant; from which

Subdivision of T. 32 S., R. 26 E.

Chains

A cedar, 10 ins. diam., bears N. $19^{\circ}05' E.$, 59

lks. dist., marked T 32 S R 26 E S 15 B T

A cedar, 6 ins. diam., bears S. $73^{\circ}10' E.$, 17

lks. dist., marked T 32 S R 26 E S 22 B T

A cedar, 8 ins. diam., bears S. $11^{\circ}30' W.$, 23

lks. dist., marked T 32 S R 26 E S 21 B T

A pinon, 14 ins. diam., bears N. $9^{\circ}05' W.$, 36

lks. dist., marked T 32 S R 26 E S 16 B T

Land, rolling.

Soil, sandy loam, 1st rate, from 12 to 18 ins. deep,

Subsoil, gravel and rock.

Timber, cedar and pinon.

Undergrowth, sagebrush.

Heavily timbered land or land covered with dense undergrowth on 80.00 chs.

N. $89^{\circ}56' W.$ on a random line bet. secs. 16 and 21.

Set temp. $\frac{1}{4}$ sec. cor.

Intersect N. and S. line 5 lks. N. of the cor. of secs.

16, 17, 20 and 21.

Thence I run

S. $89^{\circ}58' E.$ on a true line bet. secs. 16 and 21.

Gradual descent over rolling land, through heavy timber.

11.25

Leave heavy timber, bears N. and S.

Enter scattering timber and dense undergrowth.

35.00

Leave timber.

40.02

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{2}$ S 16 on N half, S 21 on S half; dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

40.90

Wash, 10 lks. wide, 5 ft. deep, course SW.

56.00

Enter heavy timber, bears N. and S.

65.00

Leave timber, bears N. and S.

67.00

Wash, 10 lks. wide, 4 ft. deep, course SW.

Subdivision of T. 32 S., R. 26 E.

Chains	
70.40	Enter heavy timber, bears N. and S.
80.04	The cor. of secs. 15, 16, 21 and 22. Land, rolling. Soil, sandy loam, 1st rate from 12 to 18 ins. deep. Subsoil, gravel and clay. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth or heavily timbered land on 80.04 chs.

November 4, 1911.

November 6: At 7h 44m a.m., l.m.t., I set off $38^{\circ}02'N$. on lat. arc; $15^{\circ}44'S$. on decl. arc; and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22.

Thence I run

$N.0^{\circ}02'E$. bet. secs. 15 and 16.

Gradual ascent over rolling land, through heavy timber.

27.00 Leave heavy timber, bears E. and W.

34.00 Enter scattering timber, bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4} S 16$ on W half, S 15 on E half; from which

A pinon, 14 ins. diam., bears N. $89^{\circ}51'W$., 72

lks. dist., marked $\frac{1}{4} S 16$ B T

A pinon, 12 ins. diam., bears S. $85^{\circ}E$., 262

lks. dist., marked $\frac{1}{4} S 15$ B T

53.50 Enter heavy timber, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 9, 10, 15 and 16, marked on brass cap

T 32 S S 9 in NW.

R 26 E S 10 in NE

S 15 in SE. and

S 16 in SW. quadrant; from which

Subdivision of T. 32 S., R. 26 E.

Chains	<p>A cedar 10 ins.diam., bears N.$33^{\circ}45' E.$, 208 lks.dist., marked T 32 S R 26 E S 10 B T</p> <p>A cedar 8 ins.dia., bears S.$65^{\circ} E.$, 163 lks. dist., marked T 32 S R 26 E S 15 B T</p> <p>A pinon 10 ins.diam., bears S.$31^{\circ}28' W.$, 94 lks.dist., marked T 32 S R 26 E S 16 B T</p> <p>A pinon 12 ins.diam., bears N.$63^{\circ}58' W.$, 208 lks.dist., marked T 32 S R 26 E S 9 B T</p> <p>Land, rolling.</p> <p>Soil, sandy loam from 20 to 26 ins. deep, 1st rate, with gravel subsoil.</p> <p>Timber, pinon and cedar.</p> <p>Undergrowth, dense sagebrush.</p> <p>Land covered with dense undergrowth or heavily timbered land on 80.00 chs.</p>
40.00	N. $89^{\circ}58' W.$ on a random line bet. secs. 9 and 16.
79.98	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line 3 lks. S. of the cor. of secs. 8, 9, 16 and 17.
	Thence I run
	S. $89^{\circ}57' E.$ on a true line bet. secs. 9 and 16.
	Gradual ascent over rolling land, through dense undergrowth.
32.00	Enter scattering timber, bears N. and S.
36.00	Leave scattering timber; bears N. and S.
39.99	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 9 on N half, S 16 on S half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
76.20	Enter heavy timber, bears N. and S.
79.98	The cor. of secs. 9, 10, 15 and 16.
	Land, rolling.
	Soil, sandy loam, from 20 to 24 ins. deep, 1st rate, with gravel and rock subsoil.

Subdivision of T. 32 S., R. 26 E.

Chains

- Timber, pinon and cedar.
Undergrowth, dense sagebrush.
Land covered with dense undergrowth or heavily timbered
land on 79.98 chs.

November 6, 1911.

Eben B Andrews

U.S. Transitman.

- November 6, 1911; N.O°02'E. bet. secs. 9 and 10.
Gradual ascent over rolling land, through dense under-growth and scattering timber.

- 15.90 Leave scattering timber, bears NE. and SW.
31.10 Enter scattering timber, bears NE. and SW.
40.00 Set an iron post, 3 ft. long, 1.in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 9° on W half, S 10° on E half; from which
A pinon, 10 ins.diam., bears N.58°50'E., 38 lks.dist., marked $\frac{1}{4}$ S 10 B T
A pinon, 8 ins.diam., bears N.88°54'W., 39 lks.dist., marked $\frac{1}{4}$ S 9 B T
47.65 Leave scattering timber, bears NE. and SW.
60.80 Enter scattering timber, bears NE. and SW.
73.20 Leave scattering timber, bears NW. and SE., enter dead timber.
80.00 Set an iron post, 3 ft. long, 2 ins.diam., 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked on brass cap
T 32 S 1 S 4 in NW
R 26 E S 3 in NE
S 10 in SE. and
S 9 in SW.quadrant; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Subdivision of T. 32 S., R. 26 E.

Chains

Land, rolling.

Soil, sandy loam, from 20 to 24 ins. deep, 1st rate, with gravel and rock subsoil.

Timber, pinon and cedar.

Undergrowth, dense sagebrush.

Land covered with dense undergrowth on 80.00 chs.

November 6, 1911.

November 7: At 7h 44m a.m., l.m.t., I set off $38^{\circ}03'N.$
on lat. arc; $16^{\circ}02'S.$ on decl. arc; and determine a
meridian with the solar at the cor. of secs. 3, 4, 9
and 10.

Thence I run

 $N.89^{\circ}57'W.$ on a random line bet. secs. 4 and 9.

40.00

Set temp. $\frac{1}{4}$ sec. cor.

80.04

Intersect the cor. of secs. 4, 5, 8 and 9.

Thence I run

 $S.89^{\circ}57'E.$ on a true line bet. secs. 4 and 9.

Gradual ascent over rolling land, through dense under-growth.

14.85

Wash, 10 lks. wide, 4 ft. deep, course NW.

18.00

Enter scattering timber, bears NW. and SE.

22.90

Leave scattering timber, bears NE. and SW.

40.02

Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}S\ 4$ on
N half S 9 on S half, from whichA cedar, 13 ins. diam., bears $N.20^{\circ}31'W.$, 90
lks. dist., marked $\frac{1}{4}S\ 4$ B TA cedar, 8 ins. diam., bears $S.41^{\circ}40'E.$, 70
lks. dist., marked $\frac{1}{2}S\ 9$ B T

40.44

Enter scattering timber, bears NE. and SW.

46.20

Leave scattering timber, bears NW. and SE.

59.25

Enter scattering timber, bears NE. and SW.

Subdivision of T. 32 S., R. 26 E.

Chains	
80.04	<p>The cor. of secs. 3, 4, 9 and 10.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, from 20 to 24 ins. deep, 1st rate, with gravel and rock subsoil.</p> <p>Timber, scattering pinon and cedar.</p> <p>Undergrowth, dense sagebrush.</p> <p>Land covered with dense undergrowth on 80.04 chs.</p>
	<p>N.0°02'E. on a random line bet. secs. 3 and 4.</p>
40.00	<p>Set temp. $\frac{1}{4}$ sec. cor.</p>
120.36	<p>Intersect N. bdy. of Tp. 18 lks. E. of the cor. of secs. 3, 4, 33 and 34, heretofore described.</p> <p>Thence I run</p> <p>S.0°03'E. on a true line bet. secs. 3 and 4.</p> <p>Gradual descent over rolling land, through dense undergrowth.</p>
60.40	<p>Enter heavy timber, bears NE. and SW.</p>
80.36	<p>Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 4 on W half; S 3 on E half; from which</p> <p>A pinon, 9 ins.diam., bears N.60°30'E., 39 lks. dist., marked $\frac{1}{4}$ S 3 B T</p> <p>A pinon, 22 ins.diam., bears N.21°42'W., 24 lks. dist., marked $\frac{1}{4}$ S 4 B T</p>
86.50	<p>Leave timber, bears NE. and SW.</p>
92.50	<p>Wash, 25 lks. wide, 10 ft. deep, course NE.</p>
110.00	<p>Enter scattering burnt and dead timber.</p>
120.36	<p>The cor. of secs. 3, 4, 9 and 10.</p> <p>Land, rolling.</p> <p>Soil, sandy loam, from 12 to 18 ins. deep, 1st rate.</p> <p>Subsoil, gravel and rock.</p> <p>Timber, live and dead cedar and pinon.</p> <p>Undergrowth, sagebrush.</p>

Subdivision of T.32 S., R. 26 E.

Chains

Heavily timbered land; or. land covered with dense undergrowth on 120.36 chs.

November 7, 1911.

November 3: At 7h 44m a.m., l.m.t., I set off $37^{\circ}59'N.$ on lat. arc; $14^{\circ}48'S.$ on decl. arc; and determine a meridian with the solar at the re-established cor. of secs. 2, 3, 34 and 35, heretofore described on the S. bdy. of the Tp.

Thence I run

$N.0^{\circ}03'E.$ bet. secs. 34 and 35.

Gradual ascent over rolling land; through dense under-growth and scattering timber.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4} S 34$ on W half, $S 35$ on E half; from which

A pinon, 6 ins. diam., bears $S.38^{\circ}59'E.$, 60

lks. dist., marked $\frac{1}{4} S 35$ B T

A pinon, 7 ins. diam., bears $N.66^{\circ}54'W.$, 57

lks. dist., marked $\frac{1}{4} S 34$ B T

66.10 Sandstone ledges, bears NE. and SW.; abrupt descent, enter heavy timber.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked on brass cap

T 32 S S 27 in NW

R 26 E S 26 in NE

S 35 in SE. and

S 34 in SW. quadrant; from which

A cedar 8 ins. diam., bears $N.31^{\circ}30'E.$, 12 lks.

dist., marked T 32 S R 26 E S 26 B T

A cedar 14 ins. diam., bears $S.39^{\circ}48'E.$, 32 lks.

dist., marked T 32 S R 26 E S 35 B T

A cedar 8 ins. diam., bears $S.32^{\circ}W.$, 28 lks.

Subdivision of T. 32 S., R. 26 E.

Chains	
	dist., marked T 32 S R 26 E S 34 B T
	A cedar, 8 ins. diam., bears N. 85°45' W., 48 lks.
	dist., marked T 32 S R 26 E S 27 B T
	Land, rolling and mountainous.
	Soil, sandy loam, from 15 to 20 ins. deep, 1st rate, with gravel and solid sandstone subsoil, on first 66.10 chs.; balance, broken sandstone ledges and rocky 4th rate.
	Timber, pinon and cedar.
	Undergrowth, dense sage and oak brush.
	Land covered with dense undergrowth or heavily timbered land on 80.00 chs.
40.00	West on a random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line 3 lks. N. of the cor. of secs. 27, 28, 33 and 34.
	Thence I run
	N. 89°59' E. on a true line bet. secs. 27 and 34.
	Gradual ascent over rolling land, through heavy timber.
40.02	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 27 on N half, S 34 on S half; from which
	A pinon, 12 ins. diam., bears N. 67°31' W., 57 lks. dist., marked $\frac{1}{4}$ S 27 B T
	A cedar, 10 ins. diam., bears S. 26°35' E., 30 lks. dist., marked $\frac{1}{2}$ S 34 B T
44.10	Abrupt descent over sandstone ledges, 200 ft. above bottom of canyon, bears NE. and SW.
61.05	Foot of abrupt descent, leave timber, bears NE. and SW. Thence over level bottom of Summit Canyon.
64.90	Wash in bottom of Summit Canyon, 30 lks. wide, 15 ft. deep, course NE.
69.70	Begin abrupt ascent over NE. slope of Summit Canyon.

Subdivision of T. 32 S., R. 26 E.

Chains	Enter heavy timber, bears NE. and SW.
80.04	<p>The cor. of secs. 26, 27, 34 and 35.</p> <p>Land, rolling and mountainous and level.</p> <p>Soil, rocky loam, from 15 to 20 ins. deep, 2nd rate, with gravel and solid sandstone subsoil; balance sandstone ledges and rocky 4th rate, except in the bottom of Summit Canyon which is a sandy loam from 4 to 5 ft. deep, 1st rate.</p> <p>Timber, heavy pinon and cedar.</p> <p>Undergrowth, dense sage and oak brush.</p> <p>Land covered with dense undergrowth, or heavily timbered land on 80.04 chs.</p> <p>November 3: At this cor. I set off $14^{\circ}54' S.$ on the decl. arc, and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}00' N.$</p>
9.43	<p>East on a true line bet. secs. 26 and 35.</p> <p>Gradual ascent over NW. slope of Summit Canyon, through heavy timber.</p> <p>Intersect Utah-Colorado State Boundary line at N.$1^{\circ}10' W.$</p> <p>28.78 chs. from the 66 Mile Cor., heretofore described Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the closing cor. of secs. 26, and 35, marked on brass cap.</p> <p>Conc. 2 Jts N CC C on E half de line, see letter H. 100 ft. Dir. 9/23 613 and U. on W. half Miscellaneous T. 32 S S. 26 in NW</p> <p>Cedar 10' dia N 63°45' W 84 Chs R. 26 E S 35 in SW. quadrant; from which A pinon, 9 ins. diam., bears N. $46^{\circ}45' W.$, 31 lks. dist., marked T. 32 S R. 26 E S 26 B T</p> <p>A cedar, 23 ins. diam., bears S. $67^{\circ}45' W.$, 23 lks. dist., marked T. 32 S R. 26 E S 35 B T</p> <p>Land, mountainous.</p> <p>Soil, broken sandstone ledges and rocky, 4th rate.</p>

Subdivision of T. 32 S., R. 26 E.

Chains

Timber, heavy cedar and pinon.

Land heavily timbered on 9.43 chs.

N.0°03'E. bet. secs. 26 and 27.

Gradual descent through heavy timber.

4.35 Leave heavy timber, bears NE. and SW. enter level bottom of Summit Canyon, dense undergrowth.

6.25 Wash in bottom of Summit Canyon, 35 lks. wide, 15 ft. deep, course NE.

8.50 Begin abrupt ascent over SE. slope of Summit Canyon, over ledges and boulders.

40.00 Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 27 on W. half, S 26 on E half, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

42.10 Top of sandstone ledges, 300 ft. above bottom of canyon, bears NE. and SW. Gradual ascent over rolling land.

44.00 Enter heavy timber, bears NE. and SW.

80.00 Set an iron post 3 ft. long, 2 ins.dia., 24 ins. in the ground for cor. of secs. 22, 23, 26 and 27, marked on brass cap

T 32 S S 22 in NW

R 26 E S 23 in NE

S 26 in SE. and

S 27 in SW.quadrant; from which

A cedar, 9 ins.diam., bears N.60°15'E., 13 lks.

dist., marked T 32 S R 26 E S 23 B T

A pinon, 8 ins.diam., bears S.10°10'E., 23 lks.

dist., marked T 32 S R 26 E S 26 B T

A cedar, 7 ins.diam., bears S.48°25'W., 34 lks.

dist., marked T 32 S R 26 E S 27 B T

A cedar, 11 ins.diam., bears N.58°10'W., 20 lks.

dist., marked T 32 S R 26 E S 22 B T

Land, rolling mountainous and level.

Soil, broken ledges and rocky on first 42.10 chs. 4th

Subdivision of T. 32 S., R. 26 E.

Chains	<p>rate, with exception of 4.15 chs. in the bottom of Summit Canyon which is a sandy loam from 4 to 5 ft. deep, 1st rate; balance rocky loam from 10 to 15 ins. deep, 2nd rate; with solid sandstone subsoil.</p> <p>Timber, pinon and cedar.</p> <p>Undergrowth, dense sage and oak brush.</p> <p>Land, covered with dense undergrowth or heavily timbered land on 80.00 chs.</p> <p style="text-align: right;">November 3, 1911.</p>
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- November 4: At 7h 44m a.m., l.m.t., I set off $38^{\circ}01'N.$ on lat. arc; $15^{\circ}07'S.$ on decl. arc, and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27.
- Thence I run $S.89^{\circ}59'W.$ on a random line bet. secs. 22 and 27.
- Set temp. $\frac{1}{4}$ sec. cor.
- 40.00 Intersect N. and S. line 3 lks. N. of the cor. of secs. 21, 22, 27 and 28.
- Thence I run $N.89^{\circ}58'E.$ on a true line bet. secs. 22 and 27.
- Gradual ascent over rolling land, through dense undergrowth.
- 11.66 Enter scattering timber, bears NW. and SE.
- 25.30 Leave scattering timber, bears NW. and SE.
- 39.98 Set an iron post, 3 ft. long, 2 ins. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{2} S 22$ on N half, S 27 on S half, dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 45.51 Enter scattering timber, bears NE. and SW.
- 79.96 The cor. of secs. 22, 23, 26 and 27.
- Land, rolling.
- Soil, sandy loam from 15 to 20 ins. deep, 1st rate, with gravel and rock subsoil.
- Timber, pinon and cedar.

Subdivision of T. 32 S., R. 26 E.

Chains	<p>Undergrowth, dense sagebrush.</p> <p>Land covered with dense undergrowth or mountainous land on 79.96 chs.</p> <hr/>
8.00	<p>East on a true line bet. secs. 23 and 26.</p> <p>Gradual descent over rolling land, through heavy timber.</p> <p>Intersect Utah-Colorado State Boundary Line at N.$0^{\circ}20'W$.</p> <p>25.52 chs. from the 67 mile cor. heretofore described.</p> <p>Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for the closing cor. of secs. 23 and 26, marked on brass cap</p> <p style="text-align: right;"><i>Compass and Scale of 1/2 miles on either side of the S. E. corner T 32 S R 23 in NW R 26 E S 26 in SW, from which</i></p> <p>A pinon, 13 ins. diam., bears N.$34^{\circ}45'W$., 40 lks. dist., marked T 32 S R 26 E S 23 B T</p> <p>A pinon, 13 ins. diam., bears S.$48^{\circ}55'W$., 19 lks. dist., marked T 32 S R 26 E S 26 B T</p> <p>Land, rolling.</p> <p>Soil, sandy loam, from 15 to 20 ins. deep, 1st rate, with gravel and rock subsoil.</p> <p>Timber, pinon and cedar.</p> <p>Undergrowth, dense sagebrush.</p> <p>Land, covered with dense undergrowth on 80.00 chs.</p> <p>November 4: At the cor. of secs. 22, 23, 26 and 27, I set off $15^{\circ}12'S$. on decl. arc; and at 11h 44m.a.m., 1.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}01'N$.</p> <hr/>
18.55	<p>N.$0^{\circ}03'E$. bet. secs. 22 and 23.</p> <p>Gradual ascent over rolling land, through heavy timber.</p> <p>Leave heavy timber, bears NE. and SW.</p> <p>Enter dense undergrowth, and scattering timber.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the</p>

Subdivision of T. 32 S., R. 26 E.

Chains

ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 22 on W half, S 23 on E half; from which

A pinon, 7 ins.diam., bears N. $49^{\circ}40'$ E.,

50 lks.dist., marked $\frac{1}{4}$ S 23 B T

A pinon, 6 ins.diam., bears S. $71^{\circ}30'$ W.,

35 lks.dist., marked $\frac{1}{4}$ S 22 B T

80.00 Set an iron post 3 ft. long, 2 ins.dia., 24 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked on brass cap

T 32 S S 15 in NW

R 26 E S 14 in NE

S 23 in SE. and

S 22 in SW.quadrant, from which

A pinon, 6 ins.diam., bears N. $81^{\circ}50'$ E., 154

lks.dist., marked T 32 S R 26 E S 14 B T

A cedar, 5 ins.diam., bears S. $68^{\circ}21'$ E., 108

lks.dist., marked T 32 S R 26 E S 23 B T

A pinon, 7 ins.diam., bears S. $58^{\circ}36'$ W., 170

lks.dist., marked T 32 S R 26 E S 22 B T

A pinon, 7 ins.diam., bears N. $12^{\circ}30'$ W., 197

lks.dist., marked T 32 S R 26 E S 15 B T

Land, rolling.

Soil, sandy loam, from 20 to 24 ins. deep, 1st rate, with gravel subsoil.

Timber, pinon and cedar.

Undergrowth, dense sagebrush.

Land covered with heavy timber or dense undergrowth on

80.00 chs..

S. $89^{\circ}58'$ W. on a random line bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

80.04 Intersect N. and S. line 9 lks. S. of the cor. of secs. 15, 16, 21 and 22.

Thence I run

S. $89^{\circ}58'$ E. on a true line bet. secs. 15 and 22.

Subdivision of T. 32 S., R. 26 E.

Chains	
	Gradual ascent over rolling land; through dense undergrowth and scattering timber.
13.20	Wash, 10 lks. wide, 3 ft. deep, course SW.
40.02	Set an iron post 3 ft. long, 1 ins.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 15 on N half, S 22 on S half; from which
	A pinon, 16 ins.diam., bears N.47°30'W., 31 lks.dist., marked $\frac{1}{4}$ S 15 B T
	A cedar, 18 ins.diam., bears S.5°W., 28 lks.dist., marked $\frac{1}{4}$ S 22 B T
52.70	Leave scattering timber, bears NE. and SW.
76.80	Enter scattering timber, bears NE. and SW.
80.04	The cor. of secs. 14, 15, 22 and 23. Land, rolling. Soil, sandy loam, from 20 to 24 ins. deep, 1st rate, with gravelly subsoil. Timber, pinon and cedar. Undergrowth, dense sagebrush. Land covered with dense undergrowth or heavily timbered land on 80.04 chs.

November 4, 1911.

November 6:

For solar observations see page 14 of retracement of Utah-Colorado State Line, book "M".

East on a true line bet. secs. 14 and 23.

Gradual ascent over rolling land, through dense undergrowth and scattering timber.

7.65 Intersect Utah-Colorado State Line, at N.28.08 chs. from the 68 mile cor., heretofore described.

Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground, for closing cor. of secs. 14 and 23, marked on brass cap

CC C on E half

U on W half

Chas. C. Estes
Utah-Colorado
Nov. 6, 1911
M. J. Day & Son Co. #613
The Peacock Company

Subdivision of T. 32 S., R. 26 E.

Chains	<p>T 32 S S 14 in NW R 26 E S 23 in SW.quadrant; from which A pinon, 6 ins.diam., bears N.$61^{\circ}23'W.$, 155 lks.dist., marked T 32 S R 26 E S 14 B T A pinon, 7 ins.diam., bears S.$53^{\circ}10'W.$, 151 lks.dist., marked T 32 S R 26 E S 23 B T</p> <p>Land, rolling.</p> <p>Soil, sandy loam, from 20 to 24 ins. deep, 1st rate, with gravel subsoil.</p> <p>Timber, pinon and cedar.</p> <p>Undergrowth, dense sagebrush.</p> <p>Land covered with dense undergrowth on 7.65 chs.</p>
	<p>N.$0^{\circ}03'E.$ bet. secs. 14 and 15.</p> <p>Gradual ascent over rolling land, through dense undergrowth and scattering timber.</p>
6.85	Leave scattering timber, bears NE. and SW.
18.35	Wash, 8 lks. wide, 4 ft. deep, course SW.
40.00	<p>Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 15 on W half, S 14 on E half; from which two lone trees</p> <p>A pinon, 6 ins.diam., bears N.$11^{\circ}15'W.$, 129 lks.dist., marked $\frac{1}{4}$ S 15 B T</p> <p>A pinon, 7 ins.diam., bears N.$58^{\circ}15'E.$, 261 lks.dist., marked $\frac{1}{4}$ S 14 B T</p>
72.45	Wash, 15 lks. wide, 2 ft. deep, course SW.
76.80	Enter scattering timber, bears NE. and SW.
80.00	<p>Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked on brass cap</p> <p>T 32 S S 10 in NW R 26 E S 11 in NE S 14 in SE. and S 15 in SW.quadrant; from which</p>

Subdivision of T. 32 S., R. 26 E.

Chains

A pinon, 6 ins. diam., bears N. $27^{\circ}50' E.$, 27 lks. dist., marked T 32 S R 26 E S 11 B T
A pinon, 6 ins. diam., bears S. $41^{\circ}50' E.$, 150 lks. dist., marked T 32 S R 26 E S 14 B T
A pinon, 8 ins. diam., bears S. $64^{\circ}30' W.$, 44 lks. dist., marked T 32 S R 26 E S 15 B T
A pinon, 8 ins. diam., bears N. $35^{\circ}10' W.$, 48 lks. dist., marked T 32 S R 26 E S 10 B T

Land, rolling.

Soil, rocky loam, from 20 to 24 ins. deep, with solid sandstone subsoil.

Timber, pinon and cedar.

Undergrowth, dense sagebrush.

Land covered with dense undergrowth on 80.00 chs.

November 6: At this cor. I set off $15^{\circ}48' S.$ on decl. arc; and at 11h 44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}02' N.$

N. $89^{\circ}58' W.$ on a random line bet. secs. 10 and 15.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

79.96 Intersect the N. and S. line 10 lks. N. of the cor. of secs. 9, 10, 15 and 16.

Thence I run

N. $89^{\circ}58' E.$ on a true line bet. secs. 10 and 15.

Gradual ascent over rolling land, through dense undergrowth and scattering timber.

13.80 Leave scattering timber, bears NE. and SW.

38.70 Enter scattering timber, bears NE. and SW.

39.98 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{2}$ S 10 on N half, S 15 on S half; from which

A pinon, 10 ins. diam., bears N. $6^{\circ}25' E.$, 42

lks. dist., marked $\frac{1}{2}$ S 10 B T

A pinon, 15 ins. diam., bears S. $16^{\circ}40' E.$, 40

lks. dist., marked $\frac{1}{2}$ S 15 B T

Subdivision of T. 32 S., R. 26 E.

Chains

79.96

The cor. of secs. 10, 11, 14 and 15.

Land, rolling.

Soil, sandy loam from 15 to 20 ins. deep, 1st rate, with gravel and rock subsoil.

Timber, pinon and cedar.

Undergrowth, dense sagebrush.

Land covered with dense undergrowth on 79.96 chs.

November 6, 1911.

November 9: At 7h 44m a.m., l.m.t., I set off $38^{\circ}03'$

N. on lat. arc; $16^{\circ}37' S.$ on decl. arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence I run

East on a true line bet. secs. 11 and 14.

Gradual ascent through dense undergrowth and scattering timber.

7.61

Intersect Utah-Colorado State Boundary line at N. $0^{\circ}03'E.$

27.75 chs. from the 69 Mile Cor. heretofore described.

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for closing cor. of secs. 11 and 14, marked on brass cap

CC C on E half

U on W half

T 32 S S 11 in NW., and

R 26 E S 14 in SW. quadrant; from which

A pinon, 7 ins. diam., bears N. $59^{\circ}W.$, 27 lks.

dist., marked T 32 S R 26 E S 11 B T

A pinon, 6 ins. diam., bears S. $10^{\circ}15'W.$, 54 lks.

dist., marked T 32 S R 26 E S 14 B T

Land, rolling.

Soil, sandy loam 15 ins. deep, 1st rate.

Timber, scattering cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth on 7.61 chs.

Subdivision of T. 32 S., R. 26 E.

Chains	
	N.0°03'E. bet. secs. 10 and 11.
	Gradual ascent over rolling land, through scattering timber and dense undergrowth.
18.45	Leave scattering timber.
23.70	Enter scattering timber.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 10 on W half, S 11 on E half; dig pits 18x18x12 ins. N. end S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
49.65	Enter scattering burnt and dead timber.
66.50	Leave dead timber, enter live timber.
69.45	Enter scattering burnt and dead timber.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on brass cap
	T 32 S S 3 in NW
	R 26 E S 2 in NE
	S 11 in SE. and
	S 10 in SW. quadrant, from which
	A pinon, 6 ins. diam., bears N.8°05'E., 156 lks. dist., marked T 32 S R 26 E S 2 B T
	A cedar, 7 ins. diam., bears S.48°03'E., 164 lks. dist., marked T 32 S R 26 E S 11 B T
	A pinon, 9 ins. diam., bears N.18°15'W., 191 lks. dist., marked T 32 S R 26 E S 3 B T
	No other trees within limits; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land, rolling.
	Soil, sandy loam, from 12 to 18 ins. deep, 1st rate.
	Subsoil, gravel.
	Timber, scattering live and dead timber.
	Undergrowth, sagebrush.
	Land covered with dense undergrowth on 80.00 chs.

Subdivision of T. 32 S., R. 26 E.

Chains

S.89°58'W. on a random line bet. secs. 3 and 10

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.98 Intersect the cor. of secs. 3, 4, 9 and 10.

Thence I run

N.89°58'E. on a true line bet. secs. 3 and 10.

Gradual ascent over rolling land, through dense under-growth and scattering burnt and dead timber.

34.26 Enter heavy live timber.

39.99 Set an iron post 3 ft. long, 1 ins.dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 3 on N half, S 10 on S half; from which

A pinon, 8 ins.diam., bears N.2°E., 19 lks.

dist., marked $\frac{1}{4}$ S 3 B T

A cedar, 8 ins.diam., bears S.3°15'W., 29 lks.

dist., marked $\frac{1}{4}$ S 10 B T

69.53 Leave heavy timber, bears N. and S.

Enter scattering burnt and dead timber.

79.98 The cor. of secs. 2, 3, 10 and 11.

Land, rolling.

Soil, sandy loam, from 12 to 18 ins. deep, 1st rate.

Subsoil, gravel.

Timber, live and dead cedar and pinon.

Undergrowth, sagebrush.

Land covered with dense undergrowth or heavily timbered land on 79.98 chs.

East on a true line bet. secs. 2 and 11.

Descend through scattering timber and dense undergrowth.

7.67 Intersect Utah-Colorado State Boundary line at S.0°03'W.

52.93 chs. from the 71 Mile Cor., heretofore described.

Set an iron post, 3 ft. long, 2 ins.dia., 24 ins. in the ground, for closing cor. of secs. 2 and 11, marked on brass cap

CC C on E half

U on W half

T 32 S S 2 in NW

Subdivision of T. 32 S., R. 26 E.

Chains	<p>R 26 E S 11 in SW.quadrant; from which A cedar, 11 ins.diam., bears N.$71^{\circ}15'W.$, 239 lks. dist., marked T 32 S R 26 E S 2 B T</p> <p>A pinon, 9 ins.diam., bears S.$27^{\circ}30'W.$, 280 lks. dist., marked T 32 S R 26 E S 11 B T</p> <p>Land, rolling.</p> <p>Soil, sandy loam, from 12 to 15 ins. deep, 1st rate.</p> <p>Subsoil, gravel.</p> <p>Timber, scattering cedar and pinon.</p> <p>Undergrowth, sagebrush.</p> <p>Land covered with dense undergrowth on 7.67 chs.</p> <p>November 9: At this cor. I set off $16^{\circ}42'S.$ on decl.arc, and at 11h.44m a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}03'N.$</p>
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	N. $0^{\circ}03'E.$ on a random line bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
120.25	Intersect N. bdy. of Tp. 10 lks. E. of the cor. of secs. 2, 3, 34 and 35, heretofore described.
	Thence I run
	South on a true line bet. secs. 2 and 3.
	Abrupt ascent over rocky and mountainous land, and sandstone ledges, through heavy timber.
6.45	Top of ledges, 100 ft. above sec. cor., brs. NE. and SW.
	Gradual descent over rolling land.
39.10	Leave timber, bears NE. and SW.
	Enter dense undergrowth.
52.50	Enter heavy timber, bears NE. and SW.
71.00	Leave timber, bears NE. and SW.
	Enter scattering timber.
80.25	Set an iron post, 3 ft. long, 1 in.dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., marked on brass cap $\frac{1}{2} S 3$ on W half, S 2 on E half; from which A pinon, 9 ins.diam., bears N. $77^{\circ}06'W.$, 42 lks. dist., marked $\frac{1}{2} S 3 B T$

Subdivision of T. 32 S., R. 26 E.

Chains	No other trees within limits, dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
120.25	The cor. of secs. 2, 3, 10 and 11. Land, mountainous and rolling. Soil, rocky, and sandstone ledges, 3rd and 4th rate on first 15.00 chs.; balance, sandy loam, from 10 to 15 ins. deep, 1st rate. Subsoil, gravel, rocky and sandstone ledges. Timber, cedar and pinon. Undergrowth, sagebrush. Land covered with dense undergrowth, heavily timbered land, or mountainous land on 120.25 chs.

November 9, 1911.

Melvin Wist Heisler

U. S. Transitman.

GENERAL DESCRIPTION.

This fractional township is situated on the Utah-Colo-
rado State Bdy. line and the surface is generally
undulating, sloping generally to the southwest.
The only mountainous and broken land in the township
is Summit Canyon in the SE. portion, Little Indian
Canyon in the NW. portion and an unnamed hollow in the
NE. portion, all of which are cut into the solid sand-
stone which is the subsoil of the entire township.
The soil of the rolling portion of the township is
generally a sandy loam, from 12 to 18 ins. deep, with
the exception of the land in the vicinity of the hollow
or canyons, where the soil is rocky and thin on the
solid sandstone and unfit for any purpose but grazing.
A greater portion of the township is well adapted for
dry farming inasmuch as the soil is rich and of
sufficient depth, and the annual average precipitation

General Description of T. 32 S., R. 26 E.

exceeds 20 inches.

A heavy growth of cedar and pinon timber is found in patches over the entire township, while the land between these patches is covered with scattering cedar and pinon or a dense growth of sagebrush.

The only road in this township is the road between Piute Spring and Lisbon Valley, which runs north and south through the western portion of the township.

There are no settlers, springs, or surface water found in this fractional township.

There are no indications of coal, oil, or minerals found in this fractional township.

Melvin H. Heist

Eben B Andrews

U. S. Transitmen.

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CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
.....Melvin D. Heist, U. S. ~~Surveyor~~^{Transitman}, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of Tps. 35 S., Rs.
23, 24, 25 and 26 E., Tps. 34 S., Rs. 25 and 26 E., Tp. 33 S., R. 26 E., Tps. 32 S.,
Rs. 24, 25 and 26 E., and Colo. Guide Meridian and 6th. Stan. Par. S., being
W. and N. Edys' of T. 31 S., R. 24 E.

of the Salt Lake Base and Meridian, in the State of Utah
which are represented in the foregoing field notes as having been executed by him, and under his direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

Melvin H. Heist —
U. S. Transitman

FINAL OATH OF UNITED STATES SURVEYOR.

I, Melvin D. Heist, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah, bearing date of the 22nd, day of May, 1911, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Tps. 35 S., Rs. 23, 24, 25 and 26 E., Tps. 34 S., Rs. 25 and 26 E., Tp. 33 S., R. 26 E., Tps. 32 S., Rs. 24, 25 and 26 E., and Colo. Guide Mer., and 6th Stan. Par. South, being west and north brys. of Tp. 31 S., R. 24 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Melvin D. Heist

U. S. Transitman

Subscribed by said Melvin D. Heist, and sworn to before me
this 10 day of February, 1912

Thomas R. Bell
U. S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah

1911

The foregoing field notes of the survey of the Sixth Standard Parallel South through Range No. 24 East of the Salt Lake Base and Meridian, Utah

executed by Thomas R. Bell, U. S. Surveyor,
under his special instructions dated May 22, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
.....Eben B. Andrews, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of Tps. 35 S., Rs.
....23, 24, 25 and 26 E.; Tps. 34 S., Rs. 25 and 26 E., T. 33 S., R. 26 E., Tps.
....32 S., Rs. 24, 25 and 26 E. and W. and N. bdys. of T. 31 S., R. 24 E.

of the Salt Lake Base and Meridian, in the State of Utah
which are represented in the foregoing field notes as having been executed by him, and under his direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Charles J. Albrecht	June 7, 1911	July 12, 1911	Moundman
Jack Young	July 30, 1911	August 28, 1911	Moundman
William Byrd	Sept. 6, 1911	October 15, 1911	Moundman
Harold C. Bates	June 7, 1911	October 28, 1911	Chainman
Elmer R. Varela	Sept. 5, 1911	November 9, 1911	Chainman
Wm. B. F. Cook	Oct. 29, 1911	November 17, 1911	Chainman
William Trager	November 7, 1911	Nov. 17, 1911	Moundman
Frederick S. Miller	June 7, 1911	Sept. 4, 1911	Chainman
Walter Bird	June 7, 1911	Nov. 17, 1911	Axman
Patrick Kelly	June 7, 1911	Nov. 17, 1911	Flagman

Subscribed and certified to before me on the dates of the final service as shown above.

Eben B. Andrews, U. S. Transitman

TRANSITMAN.
FINAL OATH OF UNITED STATES SURVEYOR.

I, Eben B. Andrews, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah, bearing date of the 22nd day of May, 1911, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Tps. 35 S., Rs. 23, 24, 25 and 26 E., Tps. 34 S., Rs. 25 and 26 E., Tp. 33 S., R. 26 E., Tps. 32 S., Rs. 24, 25 and 26 E., and N. and W. bdys. of T. 31 S., R. 24 E.

..... of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Eben B. Andrews

U. S. Transitman

Eben B. Andrews, May 22-19
U. S. Transitman.

Subscribed by said Eben B. Andrews, and sworn to before me }
this 10th day of February, 1912 }
My commission expires November 25, 1913.

Lora M. Holdeman

Notary Public.

Subscribed by said Eben B. Andrews, and sworn to
before me this 22 day of May, 1912.

Frank H. Bell
U. S. Surveyor-General

APPROVAL. for Utah.